

NOUVELLE PROTEINE DE FIXATION DU PHOSPHATE, COMPOSITIONS PHARMACEUTIQUES LA CONTENANT ET SES UTILISATIONS

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La présente invention a pour objet une nouvelle protéine, issue du sérum humain, de fixation du phosphate, des compositions pharmaceutiques la contenant ainsi que ses utilisations, notamment dans le cadre du traitement de l'hyperphosphatémie et des maladies cardiovasculaires ou de l'arthrite.

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Le phosphate est une molécule très importante impliquée dans de nombreux mécanismes biologiques. On retrouve notamment le phosphate dans les phospholipides, dans le mécanisme de production d'énergie (ATP, ADP), dans les processus de signalisation cellulaire, dans la composition du matériel génétique dans les os (sous forme de phosphate de calcium).

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L'hyperphosphatémie est une pathologie liée à un excès de phosphate dans l'organisme et provoque notamment une augmentation des risques de maladies cardiovasculaires, en favorisant les processus d'athérosclérose et de calcification des artères (Dorozhkin et Epple, 2002; Amann et al., 2003; Blazheevich et al., 1975). La calcification s'effectuant au niveau des articulations, l'hyperphosphatémie peut aussi provoquer de l'arthrite (pseudo-goutte).

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Les sels de phosphate de calcium produits dans le sérum lors d'une hyperphosphatémie précipitent dans les tissus mous avec calcification ectopique dans différents tissus: vaisseaux (accidents vasculaires cérébraux ou cardiaques), articulations (pseudo-goutte), cristallin, interstitium rénal (néphrocalcinose), souscutanées (prurit), pulmonaires, pancréatiques.

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Ainsi, la moitié des décès chez les personnes souffrant d'insuffisance rénale est due à des maladies cardiovasculaires liées à l'hyperphosphatémie. A cet égard, certains chélateurs du phosphate qui complexent le phosphate dans la lumière intestinale sont actuellement utilisés comme médicament. Cependant, tous ces chélateurs ne sont pas physiologiques. De là découlent certaines complications ou restrictions quant à leur usage.

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Les préparations contenant du magnésium sont limitées par la survenue de troubles digestifs (diarrhée) et sont à proscrire en raison du risque d'hypermagnésémie. De même, la prescription d'hydroxyde d'aluminium, longtemps utilisé du fait de son efficacité, doit être évitée, ou du moins limitée à de très faibles périodes, en raison du

- ou toute séquence homologue de la séquence SEQ ID NO: 2 ou SEQ ID NO: 3, ayant de préférence une homologie d'au moins environ 80% avec la séquence SEQ ID NO: 2 ou SEQ ID NO: 3, sous réserve que ladite séquence homologue se lie au phosphate,

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- ou tout fragment d'une des séquences définies ci-dessus, sous réserve que ledit fragment se lie au phosphate, notamment tout fragment étant constitué d'au moins environ 20 acides aminés contigus dans la séquence SEQ ID NO : 2 ou SEQ ID NO : 3.

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La séquence SEQ ID NO: 2 correspond à la protéine humaine de fixation du phosphate. Cette nouvelle protéine a été isolée dans le plasma humain et sa structure tridimensionnelle montre qu'elle appartient à la classe des "phosphate binding protein" (protéines de fixation du phosphate: PBP). Elle est également appelée par la suite HPBP (protéine humaine de fixation du phosphate).

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La séquence SEQ ID NO: 3 correspond à une protéine homologue de la protéine de séquence SEQ ID NO: 2, présentant un pourcentage d'identité d'environ 90% avec la séquence SEQ ID NO: 2, et ayant les mêmes propriétés de fixation du phosphate que la séquence SEQ ID NO: 2.

La propriété de fixation du phosphate des séquences de l'invention peut être vérifiée par le test suivant de fixation du phosphate par marquage radioactif:

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La protéine est fixée sur une membrane de nitrocellulose (dot blot par aspiration). On laisse incuber la membrane dans un tampon radioactif (³²P (10 mCi/ml, <u>Amersham-Biosciences</u>) 2M; Tris 50 mM; pH 8,0)

La membrane est rapidement rincée 2 × 1 min dans un tampon Tris 50 mM, pH 8,0. En exposant un film photographique avec la membrane (environ 45 min) on peut détecter les zones qui fixent le phosphate radioactif (voir Figure 3 ci-après).

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La présente invention concerne également une séquence nucléotidique codant pour une protéine telle que définie ci-dessus.

La présente invention concerne également un vecteur recombinant, notamment plasmide, cosmide, phage ou ADN de virus, contenant une séquence nucléotidique telle que définie ci-dessus.

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Selon un mode de réalisation avantageux, la présente invention concerne un vecteur recombinant tel que défini ci-dessus, contenant les éléments nécessaires à l'expression dans une cellule hôte des polypeptides codés par la séquence nucléotidique telle que définie ci-dessus, insérée dans ledit vecteur.

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La présente invention concerne plus particulièrement l'utilisation d'une protéine telle que définie ci-dessus, notamment SEQ ID NO : 2 ou SEQ ID NO : 3, dans le cadre de la prévention ou du traitement des maladies cardiovasculaires.

La présente invention concerne également l'utilisation d'une protéine selon l'invention, notamment de la protéine représentée par la séquence SEQ ID NO: 2 ou SEQ ID NO: 3, en association avec une protéine telle qu'un variant de la protéine paraoxonase, dans le cadre de la prophylaxie ou du traitement des intoxications provoquées par des insecticides ou des agents neurotoxiques, tels que le soman, le VX, le tabun ou le sarin, ou dans le cadre du traitement de l'athérosclérose.

La présente invention concerne également un produit de combinaison comprenant au moins une protéine telle que définie ci-dessus, notamment SEQ ID NO: 2 ou SEQ ID NO: 3, et au moins un variant de la protéine paraoxonase, pour une utilisation simultanée, séparée ou étalée dans le temps destiné à la prophylaxie ou au traitement des intoxications provoquées par des insecticides ou des agents neurotoxiques, tels que le soman, le VX, le tabun ou le sarin.

L'utilisation combinée de la protéine de l'invention, notamment SEQ ID NO : 2, avec un variant de la protéine paraoxonase, permet d'accroître la stabilité de la paraoxonase, notamment dans le cadre de la prophylaxie ou du traitement des intoxications provoquées par des insecticides ou des agents neurotoxiques.

La présente invention concerne également une méthode de dosage de la protéine telle que définie ci-dessus, caractérisée en ce qu'elle comprend les étapes suivantes :

- des anticorps monoclonaux de lapin dirigé contre différents épitopes de la protéine de l'invention (anti-HPB) sont fixés sur une plaque et le sérum humain à analyser contenant ladite protéine (HPB) est déposé sur la plaque susmentionnée,
 - la plaque est rincée et lavée,
- on dépose sur la plaque des anticorps anti-anticorps de lapin (anti-IGrabbitper) marqués avec de la peroxydase durant 30 minutes, afin de former un complexe ternaire entre un anticorps monoclonal de lapin, la protéine selon l'invention et un anticorps anti-anticorps de lapin susmentionnés (anti-HPB – HPB – anti-IGrabbit-per),
 - la plaque est rincée et lavée,
- on fait réagir la peroxydase fixée sur la plaque avec son substrat (kit disponible en commerce, Chemiluminescent Peroxidase Substrate (Sigma)) et la réaction est arrêtée au bout de 30 minutes avec la 3,3',5,5'-tétraméthylbenzidine (TMB, Sigma),

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plaques d'athéromes, ou au diagnostic in vitro d'une prédisposition d'un individu au développement d'une des maladies susmentionnées.

La présente invention concerne également l'application telle que définie ci-dessus au diagnostic in vitro de maladies liées à une hypophosphatémie, ou au diagnostic in vitro d'une prédisposition d'un individu au développement de ces maladies.

Parmi les signes cliniques ou physiologiques caractérisant les maladies liées à une hypophosphatémie, on peut citer :

- une déminéralisation des os,

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- les manifestations musculaires de l'hypophosphatémie qui comportent une myopathie proximale affectant le muscle squelettique et une dysphagie et un iléus affectant les muscles lisses,
 - des carences cardiopulmonaires par le manque d'ATP, et
 - une encéphalopathie métabolique.

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PARTIE EXPÉRIMENTALE

Isolation de la protéine

La protéine SEQ ID NO: 2 est obtenue à partir du plasma humain selon le procédé de Gan et al. (1991) suivant :

La protéine SEQ ID NO: 2 est purifiée à partir de poches de plasma congelé (~200 ml) fournies par l'Etablissement de Transfusion Sanguine de Lyon-Beynost. Le caillot de fibrine, formé par l'ajout de 1 M (1% v/v) de CaCl2 au plasma est séparé du sérum par filtration. Le sérum est alors mélangé à 400 ml de Gel d'affinité (Cibacron 3GA-Agarose, C-1535, Sigma) équilibré avec un tampon A (Tris/HCl 50 mM, CaCl₂ 1mM, NaCl 4M, pH 8). Dans ces conditions, principalement les HDL ("high density lipoprotein": lipoprotéines de haute densité) sont adsorbées. Après 6 à 8 heures d'incubation, les protéines non adsorbées sur le gel sont éliminées par filtration sur fritté de porosité n°2. Ce lavage s'effectue jusqu'à ce que l'on ne détecte plus de protéine dans l'éluat (absorption UV à 280 nm). Le gel est ensuite équilibré avec un tampon B (Tris/HCl 50 mM, CaCl₂ 1mM, pH 8) puis placé en colonne XK 50/30 (Pharmacia). L'élution est réalisée en rajoutant 1g/l de déoxycholate de sodium et 0,1% de triton X-100 au tampon B. Les fractions montrant une activité arylestérase sont injectées sur 50 ml d'un gel échangeur d'anions (DEAE Sepharose Fast Flow, Pharmacia) disposé en colonne XK 26/70 (Pharmacia) et équilibré avec le tampon B et 0,05% de triton X-100. L'élution se fait par gradient de NaCl. Un premier palier est réalisé à 87,5 mM de NaCl afin d'éliminer l'apo A-I, une protéine liée à la paraoxonase, et la majorité des protéines contaminantes. La paraoxonase humaine (PON1) est environ éluée à la concentration de 140 mM de NaCl. Toutes les fractions conservées montrent une activité paraoxonase et arylestérase, ces activités étant vérifiées selon les tests mentionnés plus loin. Les fractions éluées ne sont pas regroupées. Les gels SDS-PAGE des fractions obtenues montrent des bandes comprises entre 38 kDa et 45 kDa (voir Figure 1). Chaque purification n'apporte pas toujours la même distribution de masse apparente. Cette légère hétérogénéité peut s'expliquer par la présence de 2 chaînes glycosylées sur la PON1.

En plus de la PON1 dans ces lots une autre protéine a été isolée par cristallisation, en substituant le triton par le C12-maltoside et en utilisant le sulfate d'ammonium comme agent précipitant. Les cristaux obtenus sont ceux d'une protéine inconnue caractérisée par radiocristallographie et correspondant à la séquence SEQ ID NO : 2 de

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En raison de la très bonne qualité des cartes de densité électronique, la séquence primaire de la protéine a pu être assignée avec 80% de fiabilité. Une molécule de phosphate a aussi pu être localisée.

La structure obtenue ne correspond pas du tout à la paraoxonase humaine. Le séquençage obtenu en identifiant les acides aminés à partir de la densité électronique indique que ni cette protéine humaine ni son gène n'ont été décrits auparavant. Il s'agit donc d'une nouvelle protéine.

La structure de la protéine de l'invention montre une très forte homologie avec la protéine de fixation du phosphate ("phosphate binding") d'*Escherichia coli*. Cette protéine chez cette bactérie sert à transporter le phosphate à travers le périplasme. On la retrouve chez beaucoup de procaryotes mais chez aucun eucaryote.

La densité électronique a aussi montré qu'une molécule de phosphate était fixée à la nouvelle protéine de l'invention, de la même façon que dans celle d'Escherichia coli.

Ainsi, on peut conclure que la protéine de l'invention caractérisée à partir du plasma humain présente une très forte homologie avec la protéine bactérienne et qu'elle est capable de fixer le phosphate et de le transporter.

Séquençage

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Digestion dans le gel

Le mélange paraoxonase-HPBP a été séparé par gel électrophorétique avec SDS-PAGE (sans chauffage). Plusieurs bandes correspondant à HPBP aux alentour de 70 kDa ont été découpées.

La digestion de la protéine contenue dans ces bandes a été effectuée grâce au système automatique de digestion, MassPrep Sation (Waters Manchester, G.B.). Les bandes de gel ont été lavées deux fois avec 50 µl d'une solution à 25 mM de carbonate d'ammonium hydrogéné (NH4HCO3) et 50 µl d'acétonitrile. Les cystéines ont été réduites avec 50 µl d'une solution à 10mM de dithiothréitol à 57°C et acylé avec 50 µl de iodocacétamide à 55 mM. Après déshydratation avec l'acétonitrile, la protéine a été digérée enzymatiquement avec 10 µl de trypsine porcine modifiée à 12,5 ng/µl (Promega, Madisson, WI, U.S.A) ou bien avec lys-C de Lysobacter enzymogenes (Roche Applied Science, Penzberg, Germany) dans 25 mM de NH4HCO3. La digestion s'est opérée une nuit complète à température ambiante. Les peptides clivés ont été extraits avec une solution à 60% d'acétonitrile et 5% d'acide formique.

L'acquisition des données de masse a été pilotée par le programme MassLynx (Micromass, Manchester, G.B.) qui bascule automatiquement entre le mode MS et le mode MS/MS.

Les spectres MS/MS générés ont été individuellement séquencés de novo afin d'obtenir la séquence partielle ou complète. Ces interprétations ont été réalisées en utilisant le programme PepSeq (MassLynx, Micromass) et le programme PEAKS Studio (Bioinformatics Solutions, Waterloo, Canada) qui sont capables de traiter complètement un fichier pkl avec un séquençage de novo automatique sur chaque spectre MS/MS.

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Fixation du phosphate

La fixation du phosphate par la protéine de l'invention SEQ ID NO : 2 a été mise en évidence selon le test suivant :

On dépose 200 μ l de la protéine de l'invention SEQ ID NO : 2 (colonnes A-F de la Figure 3), ou du lysozyme 1 mg/ml (colonne G) ou de la β lacto-globuline sur nitrocellulose (dot blot par aspiration).

L'ensemble est incubé pendant 2 h 30 dans un mélange comprenant : tris 50 mM ; pH 8,0 ; ³²P (10 mCi/ml) 2 mM.

On effectue ensuite un rinçage 2 fois pendant 1 minute avec du tris 50 mM à pH 8,0, puis on expose l'ensemble à température ambiante pendant 45 minutes.

On constate alors (voir Figure 3) que la protéine de l'invention a fixé le phosphate radioactif (colonnes A à F), alors que les témoins tests ne l'ont pas fixée (colonnes G et H).

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Rôle et utilisation de la protéine SEQ ID NO: 2

Pour doser la concentration de cette protéine dans le plasma les méthodes utilisables sont :

- les methodes électrophorétiques,
- la purification de la protéine,
- la quantification de son activité,
- l'immunodosage de la protéine en utilisant des anticorps polyclonaux/monoclonaux dirigé contre la protéine.

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5. Vecteur recombinant selon la revendication 4, contenant les éléments nécessaires à l'expression dans une cellule hôte des polypeptides codés par une séquence nucléotidique selon la revendication 3, insérés dans ledit vecteur.

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6. Cellule hôte, choisie notamment parmi les bactéries, les levures, les cellules de champignons, les cellules de plantes ou les cellules de mammifères, ladite cellule hôte étant transformée à l'aide d'un vecteur recombinant selon l'une des revendications 4 ou 5.

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7. Composition pharmaceutique comprenant à titre de substance active une protéine selon la revendication 1 ou 2, en association avec un véhicule pharmaceutiquement acceptable.

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8. Composition pharmaceutique selon la revendication 7, comprenant à titre de substance active une protéine représentée par la séquence SEQ ID NO : 2 ou SEQ ID NO : 3.

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9. Composition pharmaceutique selon la revendication 8, dans laquelle la protéine telle que définie dans la revendication 1 ou 2, notamment SEQ ID NO: 2 ou SEQ ID NO: 3, est en association avec un variant de la protéine paraoxonase, notamment SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10 ou SEQ ID NO: 11.

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10. Utilisation d'une protéine selon la revendication 1 ou 2, notamment de la protéine représentée par la séquence SEQ ID NO: 2 ou SEQ ID NO: 3, pour la préparation d'un médicament destiné à la prévention ou au traitement de l'arthrite ou de maladies liées à une hyperphosphatémie, telles que les maladies cardiovasculaires, ou, en association avec un variant de la protéine paraoxonase, notamment SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10 ou SEQ ID NO: 11, dans le cadre de la prophylaxie ou du traitement des intoxications provoquées par des insecticides ou des agents neurotoxiques tels que le soman, le VX, le sarin ou le tabun, ou dans le cadre du traitement de l'athérosclérose.

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au diagnostic *in vitro* de maladies liées à une hypophosphatémie notamment lorsque la quantité de protéine selon la revendication 1 ou 2, notamment SEQ ID NO : 2 ou SEQ ID NO : 3, dosée selon la méthode de la revendication 12, est supérieure à la quantité de cette protéine normalement présente dans le sang d'un individu sain, ou

au diagnostic in vitro d'une prédisposition d'un individu à de telles pathologies.

- 14. Application selon la revendication 13 au diagnostic *in vitro* de maladies liées à une hyperphosphatémie telles que les maladies cardiovasculaires, notamment les maladies cardiovasculaires liées à la formation de plaques d'athéromes, ou au diagnostic *in vitro* d'une prédisposition d'un individu au développement d'une des maladies susmentionnées.
- 15. Application selon la revendication 14 au diagnostic *in vitro* de maladies liées à une hypophosphatémie, ou au diagnostic *in vitro* d'une prédisposition d'un individu au développement de ces maladies.

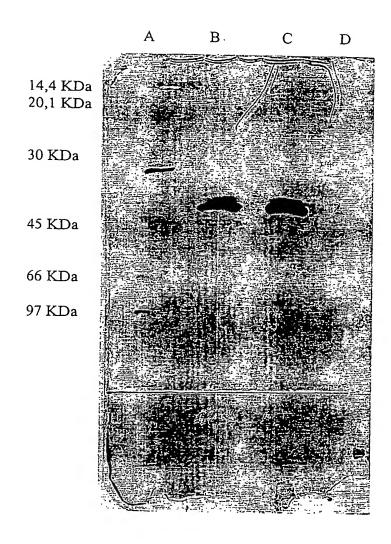


FIGURE 1



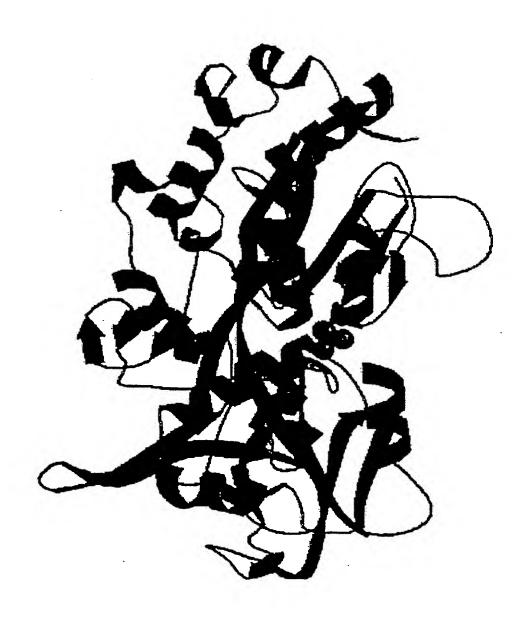


FIGURE 2



FIGURE 3

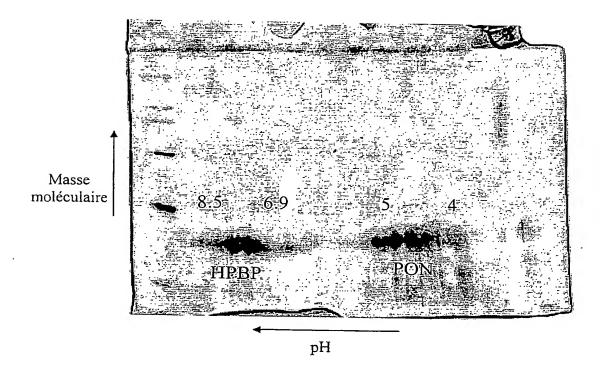


FIGURE 4

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MOTA
            1
                CB
                     SER A
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                                       24.666
                                                45.653
                                                          14.370
                                                                   1.00 26.15
                                                                                       Α
MOTA
                OG
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                              1
                                       25.258
                                                46.028
                                                          13.130
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                                                                          38.82
                                                                                       А
MOTA
                C
                     SER A
                                       22.519
                              1
                                                45.324
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                                                                   1.00
                                                                         20.30
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MOTA
                0
                     SER A
                              1
                                       21.889
                                                46.093
                                                          16.367
                                                                   1.00
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MOTA
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                     SER A
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                                       22.817
                                                47.273
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ATOM
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MOTA
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                                                44.027
                                                          15.878
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MOTA
                CA
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                              2
                                       22.149
                                                43.401
                                                          17.092
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ATOM
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                                                41.923
                                                                   1.00 14.04
                                                          16.828
                CG2
ATOM
           10
                     ILE
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                              2
                                       21.536
                                                41.191
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ATOM
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                                                41.872
                                                                   1.00
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                                                          15.988
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MOTA
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                              2
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                                                                         14.27
MOTA
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                C
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                                                          18.083
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A.TOM
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ATOM
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ATOM
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                                                46.744
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                                                                         11.70
                    ASP A
ATOM
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                                                          18.642
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ATOM
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                                                                         13.82
ATOM
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ATOM
           22
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                              3
                                       22.947
                                                43.577
                                                          22.116
                                                                   1.00
                                                                         11.48
                                                                                       A
ATOM
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           23
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                                       25.022
                                                42.763
                                                          21.800
                                                                   1.00
                                                                          9.46
                                                                                       Α
               CA
C
ATOM
           24
                     GLY A
                                      24.973
                                                41.947
                                                          23.007
                                                                   1.00
                                                                         10.97
                                                                                       Α
ATOM
           25
                     GLY A
                                       26.303
                                                41.966
                                                          23.740
                                                                   1.00
                                                                          8.48
                                                                                       Α
MOTA
           26
                0
                     GLY A
                              4
                                       27.314
                                                42.413
                                                                   1.00
                                                          23.200
                                                                           9.87
                                                                                       A
MOTA
           27
               N
                     GLY A
                                       26.296
                                                41.496
                                                          24.987
                                                                   1.00
                                                                         11.77
                                                                                       Α
ATOM
           28
               CA
                    GLY A
                                       27.511
                                                          25.785
                                                41.489
                                                                   1.00
                                                                           4.85
                                                                                       Α
MOTA
           29
                     GLY A
                              5
                                       27.163
                                                41.000
                                                          27.186
                                                                   1.00
                                                                           8.06
                                                                                       Δ
MOTA
           30
               0
                     GLY A
                                      26,009
                                                40.610
                                                                   1.00
                                                          27.447
                                                                           9.13
                                                                                       A
ATOM
           31
                     GLY A
                              6
               N
                                      28.144
                                                41.021
                                                          28.089
                                                                   1.00
                                                                           9.80
                                                                                       Α
MOTA
           32
               CA
                    GLY A
                              6
                                      27.898
                                                40.589
                                                          29.458
                                                                   1.00
                                                                           9.86
                                                                                       Α
MOTA
           33
                    GLY A
                              6
                                      28.970
                                                39.679
                                                          30.014
                                                                           7.11
                                                                   1.00
                                                                                       Α
MOTA
               0
           34
                    GLY A
                              6
7
                                      30.150
                                                40.030
                                                          30.000
                                                                   1.00
                                                                           8.89
                                                                                       Α
MOTA
               N
                    ALA A
                                      28.567
                                                38.518
                                                          30.525
                                                                   1.00
                                                                           9.08
                                                                                      Α
MOTA
                              7
           36
               CA
                    ALA A
                                      29.509
                                                37.540
                                                          31.079
                                                                   1.00
                                                                           8.69
                                                                                       Α
MOTA
           37
               CB
                              7
                    ALA A
                                      28.814
                                                36.168
                                                          31.195
                                                                   1.00
                                                                           7.94
                                                                                       Α
MOTA
           38
               С
                    ALA A
                              7
                                      30.811
                                                37.363
                                                          30.277
                                                                   1.00
                                                                          9.69
                                                                                      Α
MOTA
           39
               0
                    ALA A
                              7
                                      30.781
                                                37.212
                                                          29.050
                                                                   1.00
                                                                           7.30
                                                                                      Α
MOTA
           40
               N
                     THR A
                              В
                                                          30.981
                                      31.941
                                                37.367
                                                                           7.56
                                                                   1.00
                                                                                      Α
ATOM
           41
               CA
                    THR A
                              Я
                                      33.236
                                                37.135
                                                          30.338
                                                                   1.00
                                                                          7.21
ATOM
           42
               CB
                    THR A
                              Я
                                      34.402
                                                37.865
                                                          31.065
                                                                   1.00
                                                                          8.00
                                                                                      A
ATOM
           43
               OG1
                    THR A
                              8
                                      34.532
                                                37.344
                                                          32.402
                                                                   1.00
                                                                          9.83
ATOM
           44
               CG<sub>2</sub>
                    THR A
                              А
                                      34.123
                                                39.388
                                                          31.139
                                                                   1.00
                                                                         10.68
                                                                                      A
ATOM
           45
                     THR A
               C
                              8
                                      33.542
                                                35.624
                                                          30.340
                                                                   1.00
                                                                          5.67
MOTA
           46
               0
                    THR A
                              8
                                      34.355
                                                35.168
                                                          29.552
                                                                   1.00
                                                                          8.00
                                                                                      Α
MOTA
           47
               N
                    LEU A
                              9
                                      32.885
                                                          31.195
                                                34.842
                                                                   1.00
                                                                          6.65
                                                                                      Α
ATOM
           48
               CA
                    LEU A
                              9
                                      33.190
                                                33.389
                                                         31.224
                                                                   1.00
                                                                          9.98
                                                                                      Α
ATOM
           49
               CB
                    LEU
                         Α
                              9
                                                32.649
                                      32.275
                                                         32.238
32.271
                                                                   1.00
                                                                         10.55
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ATOM
           50
               CG
                    LEU A
                              9
                                      32.400
                                                31.109
                                                                   1.00
                                                                         11.53
                                                                                      A
ATOM
           51
               CD1
                    LEU
                              9
                                      32.200
                                                30.566
                                                                   1.00
                                                          33.699
                                                                         10.77
                                                                                      Α
                                                30.503
ATOM
           52
               CD2
                    LEU
                              9
                                      31.356
                                                          31.300
                                                                   1.00
                                                                          6.94
                                                                                      Α
                                                32.755
31.970
ATOM
           53
                    LEU
                              9
                                      33.103
                                                         29.817
                                                                         10.91
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MOTA
           54
               0
                    LEU
                              9
                                      33.985
                                                         29.421
                                                                   1.00
                                                                          9.67
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MOTA
           55
               N
                    PRO
                                      32.051
                         Α
                             10
                                                33.088
                                                          29.040
                                                                   1.00
                                                                          6.59
                                                                                      Α
          56
ATOM
               CD
                    PRO
                             10
                                      30.763
                                                33.664
                                                          29.485
                                                                   1.00
                                                                          8.09
                                                                                      Α
MOTA
           57
               CA
                    PRO A
                             10
                                      31.915
                                                32.521
                                                          27.686
                                                                   1.00
                                                                          7.68
                                                                                      Δ
ATOM
               CB
                    PRO
                            10
                                      30.428
                         Α
                                                32.218
                                                          27.611
                                                                   1.00
                                                                         11.73
                                                                                      Δ
ATOM
           59
               CG
                    PRO A
                             10
                                      29.845
                                                33.467
                                                          28.251
                                                                   1.00
                                                                          8.40
                                                                                      Α
ATOM
           60
                    PRO
                        Α
                            10
                                      32.317
                                                33.504
                                                          26.579
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                                                                          8.72
                                                                                      A
ATOM
           61
               0
                    PRO A
                            10
                                      32.040
                                                33.263
                                                          25.396
                                                                   1.00
                                                                          9.01
                                                                                      Α
ATOM
           62
               N
                    GLU
                        Α
                            11
                                    . 33.003
                                                34.589
                                                         26.928
                                                                   1.00
                                                                          5.35
                                                                                      Α
ATOM
           63
               CA
                    GLU A
                             11
                                      33.325
                                                35.565
                                                          25.896
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                                                                          8.04
                                                                                      Α
ATOM
               CB
           64
                    GLU A
                             11
                                      33.978
                                                36.829
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                                                                         12.60
ATOM
          65
               CG
                    GLU A
                            11
                                      35.380
                                                36.672
                                                         27.001
                                                                         21.32
                                                                   1.00
                                                                                      Α
ATOM
          66
               CD
                    GLU
                        Α
                             11
                                      35.994
                                                38.013
                                                         27.391
                                                                   1.00
                                                                         26.61
ATOM
          67
               OE1
                    GLU A
                                                         27.920
                            11
                                      35.264
                                               38.873
                                                                         30.93
                                                                   1.00
                                                                                      Α
                                      .37.203
ATOM
          68
               OE2
                    GLU
                        Α
                                                         27.176
                             11
                                               38.202
                                                                   1.00
                                                                         31.32
                                                                                      А
ATOM
          69
                    GLU A
                                      34.143
                                               35.066
                                                         24.709
                                                                   1.00
                                                                         10.00
                                                                                      Α
ATOM
           70
               0
                    GLU
                                      33.866
                                               35.464
                                                         23.563
                                                                          8.68
                                                                   1.00
                                                                                      Α
ATOM
           71
               Ν
                    LYS
                                      35.134
                                               34.215
                                                         24.957
                                                                   1.00
                                                                          8.65
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ATOM
           72
               CA
                    LYS
                         Α
                                      35.935
                                               33.678
                                                         23.850
                                                                   1.00 10.43
                                                                                      A
ATOM
          73
               CB
                    LYS
                         Α
                            12
                                      37.081
                                               32.840
                                                         24.374
                                                                   1.00 11.05
                                                                                      Α
ATOM
          74
               CG
                    LYS
                         Α
                            12
                                      38.151
                                                         25.090
                                               33.646
                                                                   1.00
                                                                          9.26
                                                                                      Α
ATOM
                    LYS
                            12
                                      39.117
                                               32,622
                                                         25.673
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7/46

ATOM 219 N SER A 32 28.718 39.566 34.138 1.00 7.93 A ATOM 220 CA SER A 32 27.274 39.297 34.143 1.00 4.39 A ATOM 221 CB SER A 32 26.961 37.954 34.832 1.00 2.86 A ATOM 222 OG SER A 32 27.538 36.876 34.125 1.00 6.73 A ATOM 223 C SER A 32 27.538 36.876 34.125 1.00 6.73 A ATOM 224 O SER A 32 26.440 40.386 34.793 1.00 7.61 A ATOM 224 O SER A 32 25.321 40.626 34.354 1.00 9.70 A ATOM 225 N GLY A 33 26.984 41.052 35.811 1.00 8.20 A ATOM 226 CA GLY A 33 26.256 42.121 36.506 1.00 6.91 A	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	153455678901234567890112345678901234567890123456789012311111111111111111111111111111111111	N ABOONACCOCCCCCCONABOONCCCCCONCCCCCCCONABGGGD ABGGD ABGGD ABGGD ABGGD ABGGD ABGGD ABGGD ABGGD ACCONCCONACCONABGGD ABGGD ABGDD	PHEE A A A A A A A A A A A A A A A A A A	222223333444444444455555566666667777777777777	24.53.748851223.748851223.748851223.7584901223.78895224.123.78890223.758490225.4450223.23.7889222.66.5675245.23.883522.66.5675245.23.883522.66.5675245.23.88352.23.6675245.23.88352.23.6675246.1282.6675246.1282.6675246.1282.66752288.0.8352.23.1.23.88550.129.84634.945.1282.16.553.10.1282.16.1282.	7 5 3 4 6 8 1 7 3 1 5 1 8 2 1 6 1 7 3 1 5 8 2 1 6 1 7 3 1 5 8 8 1 7 2 1 5 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 7 7 1 1 2 8 2 3 1 5 9 2 1 7 1 2 1 2 8 2 7 2 1 5 6 8 8 1 2 2 2 2 1 2 1 2 1 2 2 2 2 2 2 2 2	11.937.48537445338461199273318887223351422351633297351 11.937.48537453384634722235.64982772445333.4853.295.649827722233.2233.233.4238333333333333333333333	1.00 12.98 1.00 15.06 1.00 15.09 1.00 15.09 1.00 13.67 1.00 14.86 1.00 14.29 1.00 12.44 1.00 12.44 1.00 12.44 1.00 12.70 1.00 11.79 1.00 12.41 1.00 12.48 1.00 12.48 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.41 1.00 12.70 1.00 13.96 1.00 12.70 1.00 10.57 1.00 10.57 1.00 10.57 1.00 10.57 1.00 10.57 1.00 13.95	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	213 214 215 216 217 218 219 220 221 222 223 224 225	CONCACONCACONCACONCACONCACONCACONCACONC	THR A THR A GLY A GLY A GLY A SER A SER A SER A SER A SER A SER A GLY A	30 30 31 31 31 32 32 32 32 32 32 32 32	31.538 31.532 31.187 30.729 29.208 28.478 28.718 27.274 26.961 27.538 26.440 25.321 26.984	42.640 43.378 41.352 40.789 40.604 41.396 39.566 39.297 37.954 36.876 40.386 40.626 41.052	32.147 33.135 32.210 33.473 33.467 32.862 34.138 34.143 34.832 34.125 34.793 34.354 35.811	1.00 11.78 1.00 11.34 1.00 10.41 1.00 8.40 1.00 9.64 1.00 7.93 1.00 4.39 1.00 2.86 1.00 6.73 1.00 7.61 1.00 9.70 1.00 8.20	A A A A A A A A A A A A A A A A A A A

ATOM	227	С	GLY A		25.942	43.235	35.524	1.00 9.16	A
ATOM	228	0	GLY !	33	24.799				
ATOM	229	N	LYS A		26.943				A
ATOM	230	CA	LYS A	34	26.710				A
ATOM	231	CB	LYS A		28.040				A
ATOM	232	CG	LYS A		28.667				A
ATOM	233	CD	LYS A		29.957				A
MOTA	234	CE	LYS A		30.597			_ ::	A
ATOM	235	NZ	LYS A		29.700				A
MOTA	236	C	LYS A		25.848		32.601		A
ATOM	237	0	LYS A		25.070		32.043		A
ATOM	238	N	GLY A		25.983		32.236		A
ATOM	239	CA	GLY A	35	25.158		31.162		A
ATOM	240	С	GLY A		23.677				A
ATOM	241	0	GLY A	35	22.831		30.717	1.00 9.00	A
ATOM	242	N	LYS A		23.340		32.787		A
ATOM	243	CA	LYS A		21.929	42.089	33.173	1.00 7.26	A
ATOM	244	CB	LYS A		21.709		34.533	1.00 9.15	A A
ATOM	245	CG	LYS A		21.954	39.861	34.445	1.00 5.28	A
ATOM ATOM	246	CD	LYS A	7 7	21.394	39.069	35.662	1.00 6.85	À
	247	CE	LYS A		21.990	39.576	36.986	1.00 11.53	Â
ATOM ATOM	248	NZ	LYS A		21.397	38.945	38.221	1.00 11.99	Ä
ATOM	249 250	C	LYS A	T 7	21.409	43.527	33.204	1.00 11.18	A
ATOM	251	O	LYS A		20.311	43.787	32.724	1.00 14.03	A
ATOM	252	N	ILE A		22.190	44.459	33.749	1.00 9.12	Ä
ATOM	253	CA CB	ILE A		21.752	45.854	33.766	1.00 11.15	A
ATOM	254	CG2	ILE A ILE A	_	22.778	46.779	34.462	1.00 10.46	A
ATOM	255	CG1			22.424	48.252	34.197	1.00 11.32	A
ATOM	256		ILE A		22.774	46.522	35.972	1.00 9.50	Ä
ATOM	257	c	ILE A	37	24.024	47.029	36.669		. A
MOTA	258	ŏ	ILE A	37	21.563 20.570	46.368	32.325	1.00 11.78	Α
ATOM	259	N	ALA A	38	22.518	47.017	32.018	1.00 11.36	A
ATOM	260	CA	ALA A	38	22.438	46.071 46.539	31.452	1.00 9.31	A
ATOM	261	CB	ALA A	38	23.650	46.016	30.063	1.00 10.19	A
ATOM	262	С	ALA A	38	21.129	46.102	29.269 29.375	1.00 10.93	A
ATOM	263	0	ALA A	38	20.447	46.899	28.712	1.00 9.69	A
ATOM	264	N	PHE A	39	20.771	44.831	29.541	1.00 8.41 1.00 8.70	A
MOTA	265	CA	PHE A	39	19.566	44.327	28.914		A
ATOM	266	CB	PHE A	39	19.549	42.787	28.888	1.00 9.40 1.00 9.06	A
ATOM	267	CG	PHE A	39	18.287	42.214	28.270	1.00 7.16	A
ATOM	268	CD1		39	18.223	41.953	26.896	1.00 8.56	A
ATOM	269	CD2		39	17.146	42.000	29.051	1.00 8.19	A A
ATOM ATOM	270		PHE A	39	17.035	41.481	26.306	1.00 9.12	A
ATOM	271 272	CE2		39	15.947	41.530	28.479	1.00 9.01	Â
ATOM	273	CZ C	PHE A	39	15.888	41.269	27.101	1.00 8.28	Ä
ATOM	274	ŏ	PHE A	39 39	18.304	44.790	29.608	1.00 12.15	A
ATOM	275	Ň	LEU A	40	17.398	45.313	28.972	1.00 10.76	A
ATOM	276	CA	LEU A	40	18.246	44.602	30.920	1.00 8.71	A
MOTA	277	CB	LEU A	40	17.034 17.204	44.938	31.678	1.00 8.94	A
ATOM	278	ĊĠ	LEU A	40	17.342	44.513 43.005	33.144	1.00 7.80	Α
MOTA	279		LEU A	40	17.809	42.781	33.400	1.00 10.06	A
ATOM	280	CD2	LEU A	40	16.006	42.296	34.887	1.00 6.45	A.
MOTA	281	C	LEU A	40	16.626		33.132 31.632	1.00 12.55	P.
ATOM	282	0	LEU A	40	15.430	46.730	31.629	1.00 10.63 1.00 11.89	Ā
MOTA	283	N	GLU A	41	17.604	47.291	31.586	1.00 10.88	A
ATOM	284	CA	GLU A	41	17.294	48.717	31.551	1.00 9.10	A
ATOM	285	CB	GLU A	41	18.053	49.436	32.669	1.00 13.20	A
ATOM	286	CG	GLU A	41	17.802	48.829	34.036	1.00 13.20	A
MOTA	287	CD	GLU A	41	18.671	49.429	35.131	1.00 22.54	A
ATOM	288		GLU A		18.975	48.713	36.103	1.00 27.36	A A
ATOM	289	OE2	GLU A	41	19.037	50.616	35.043	1.00 22.49	A A
ATOM	290	C	GLU A	41	17.633	49.361	30.218	1.00 12.72	A
ATOM	291	O	GLU A	41	17.505	50.576	30.066	1.00 13.60	A
ATOM ATOM	292	N	ASN A	42	18.010	48.537	29.238	1.00 11.74	Â
MOTA	293	CA	ASN A	42	18.463	49.008	27.923	1.00 11.79	Â
ATOM	294 295	CB	ASN A	42	17.322	49.494	27.022	1.00 14.08	A
MOTA	296	CG	ASN A	42	17.824	49.897	25.642	1.00 16.54	A
ATOM	297		ASN A ASN A	42	18.885	49.428	25.189	1.00 15.67	A
NOTA	298	C	ASN A	42 42	17.076	50.763	24.960	1.00 14.22	Α
MOTA	299	ŏ	ASN A	42	19.486 19.300	50.126	28.091	1.00 16.68	Α
MOTA	300	Ň	SER A	43	20.578	51.260	27.631	1.00 14.27	A
			·· A		20.3/8	49.789	28.76 7	1.00 14.51	Α

MOTA	301	CA	SER A	43	21.665	50.740	29.001	1.00 14.54	A
MOTA	302	CB	SER A	43	21.920	50.874	30.520	1.00 19.90	A
MOTA MOTA	303 304	OG C	SER A SER A	43 43	20.922	51.662 50.327	31.162	1.00 26.26	A
ATOM	305	ŏ	SER A	43	23.790	49.633	28.302 28.891	1.00 13.78 1.00 10.60	A A
MOTA	306	N	TYR A	44	23.168	50.755	27.056	1.00 9.73	Ā
MOTA MOTA	307 308	CA CB	TYR A	44 44	24.396 24.330	50.401	26.361	1.00 10.86	A.
MOTA	309	CG	TYR A	44	25.414	50.880 50.311	24.904 24.034	1.00 10.54 1.00 12.22	A A
MOTA	310	CD1		44	26.631	50.983	23.857	1.00 12.57	Ä
MOTA MOTA	311 312	CE1	TYR A TYR A	44 44	27.625	50,469	23.011	1.00 10.91	A
ATOM	313	CE2	TYR A	44	25.217 26.201	49.106 48.587	23.357 22.517	1.00 10.34	A A
MOTA	314	CZ	TYR A	44	27.394	49.267	22.347	1.00 14.12	Ä
MOTA MOTA	315 316	C OH	TYR A TYR A	44 44	28.357 25.650	48.725 50.971	21.524 27.026	1.00 11.54 1.00 8.02	A
MOTA	317	ŏ.	TYR A	44	26.775	50.515	26.756	1.00 8.02 1.00 10.36	A A
MOTA MOTA	318 319	N	ASN A	45	25.484	51.941	27.917	1.00 8.55	A
ATOM	320	CA CB	ASN A ASN A	45 45	26.657 26.271	52.547 53.811	28.535 29.337	1.00 14.36 1.00 8.69	A A
ATOM	321	CG	ASN A	45	25.707	53.503	30.708	1.00 11.69	Ä
ATOM ATOM	322 323	OD1 ND2		45 45	25.048 25.934	52.488	30.910	1.00 13.56	A
MOTA	324	C	ASN A	45	27.423	54.411 51.535	31.655 29.388	1.00 14.48	A A
MOTA	325	0	ASN A	45	28.573	51.781	29.755	1.00 11.13	, A
ATOM ATOM	326 327	N CA	GLN A GLN A	46 46	26.788 27.462	50.393 49.337	29.681 30.435	1.00 8.83	A
ATOM	328	CB	GLN A	46	26.421	48.390	31.080	1.00 11.62	A A
MOTA MOTA	329 330	CG CD	GLN A GLN A	46 46	25.487	49.076	32.083	1.00 14.66	A
ATOM	331	OE1	GLN A		26.259 26.983	49.792 49.165	33.170 33.937	1.00 18.72	A A
ATOM	332	NE3		46	26.133	51.116	33.228	1.00 16.99	Ä
ATOM ATOM	333 334	C	GLN A GLN A	46 46	28.408 29.275	48.543 47.818	29.491 29.956	1.00 10.06	. A
MOTA	335	N	PHE A	47	28.232	48.691	28.174	1.00 10.43	A A
ATOM ATOM	336 337	CA	PHE A	47	29.055	48.025	27.148	1.00 7.46	. A
ATOM	338	CB CG	PHE A	47 47	28.191 27.271	47.487 46.349	25.992 26.366	1.00 7.56 1.00 12.11	A A
ATOM	339	CD1	PHE A	47	27.433	45.651	27.559	1.00 11.35	Ä
ATOM ATOM	340 341	CD2	PHE A	47 47	26.268 26.616	45.945 44.567	25.474	1.00 14.21	A
ATOM	342	CE2	PHE A	47	25.442	44.859	27.861 25.761	1.00 9.31 1.00 9.84	. A
MOTA ATOM	343 344	CZ C	PHE A	47 47	25.617	44.167	26.959	1.00 10.19	A
ATOM	345	ŏ	PHE A	47	30.053 31.10 <i>9</i>	48.988 48.580	26.484 26.022	1.00 12.94 1.00 14.11	A A
MOTA		. N	GLY A	48	29.677	50.257	26.378	1.00 11.49	Ä
ATOM ATOM	347 348	CA C	GLY A GLY A	48 48	30.551 30.027	51.222 52.642	25.731	1.00 13.51	A
MOTA	349	ŏ	GLY A	48	28.999	52.908	25.833 26.459	1.00 15.44	. A
ATOM ATOM	350	N	THR A	49	30.722	53.566	25.187	1.00 14.37	A
ATOM	351 352	CA CB	THR A	49 49	30.333 31.576	54.967 55.843	25.256 25.161	1.00 13.58 1.00 14.46	Α.
MOTA	353	OG1	THR A	49	32.234	55.567	23.924	1.00 15.00	A A
ATOM ATOM	354 355	CG2 C	THR A	49 49	32.558 29.301	55.524	26.322	1.00 13.17	A
ATOM	356	ŏ	THR A	49	28.716	55.436 56.511	24.216 24.370	1.00 14.30 1.00 12.47	A A
ATOM	357	N	ASN A	50	29.062	54.659	23.162	1.00 13.09	Ä
ATOM ATOM	358 359	CA CB	ASN A ASN A	50 50	28.076 28.324	55.116 54.519	22.173 20.785	1.00 14.85 1.00 15.63	A
MOTA	360	CG	ASN A	50	27.379	55.096	19.739	1.00 18.88	A A
ATOM ATOM	361 362	ND2	ASN A ASN A	50 50	26.472	55.883	20.059	1.00 19.28	A
MOTA	363	C	ASN A	50	27.574 26.669	54.707 54.751	18.489 22.615	1.00 19.28 1.00 14.82	A A
ATOM	364	0	ASN A	50	26.099	53.739	22.187	1.00 14.58	Ä
MOTA MOTA	365 366	N CA	THR A	51 51	26.097 24.782	55.608 55.377	23.443	1.00 13.25	A
ATOM	367	CB	THR A	51	24.595	56.210	23.988 25.242	1.00 15.77 1.00 17.96	A A
ATOM	368 369	OG1	THR A	51	24.937	57.574	24.973	1.00 16.18	A
ATOM ATOM	370	CG2 C	THR A	51 51	25.50 <i>6</i> 23.581	55.684 55.539	26.332 23.053	1.00 18.64 1.00 18.71	A A
MOTA	371	0	THR A	51	22.440	55.436	23.512	1.00 19.68	Ä
ATOM ATOM	372 373	N CA	THR A	52 52	23.820 22.702	55.795 55.865	21.761 20.827	1.00 16.82	A
MOTA	374	CB	THR A	52	23.017	56.666	19.524	1.00 19.67 1.00 22.55	A A
MOTA	375	OG1	THR A	52	24.028	56.006	18.744	1.00 22.57	A

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CG2 THR A
 MOTA
           376
                             52
                                       23.460
                                                        19.875 1.00 21.07
                                                58.081
                                                                                      Α
 MOTA
           377
                     THR A
                С
                             52
                                       22.342
                                                54.428
                                                          20.446
                                                                   1.00 17.92
 MOTA
           378
                0
                     THR A
                              52
                                       21.270
                                                54.175
                                                          19.905
                                                                   1.00 17.96
 MOTA
           379
                N
                     LYS A
                             53
                                       23.238
                                                          20.740
                                                53.488
 MOTA
                                                                   1.00 14.41
           380
                CA
                     LYS
                              53
                                       22.978
                                                52.080
                                                          20.427
                                                                   1.00 12.53
 ATOM
           381
                CB
                     LYS A
                             53
                                       24.292
                                                51.292
                                                          20.406
                                                                   1.00 14.33 .
 ATOM
           382
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                     LYS A
                             53
                                       25.207
                                                51.573
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 ATOM
           383
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                     LYS
                         Α
                             53
                                       26.478
                                                50.731
                                                          19.324
                                                                   1.00 18.20
 ATOM
          384
                CE
                     LYS
                         Α
                             53
                                       27.477
                                                51.052
                                                          18.214
                                                                   1.00 21.01
                                                                                      Δ
 ATOM
          385
                NZ
                     LYS
                         Α
                             53
                                       26.908
                                                50.784
                                                          16.865
                                                                   1.00 22.67
 ATOM
          386
                                                                                      Α
                     LYS A
                             53
                                       22.045
                                                51.470
                                                          21.474
                                                                   1.00 12.72
                                                                                      A
 ATOM
          387
                     LYS
                             53
                         Α
                                       22.075
                                                51.869
                                                          22.635
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                                                                         11.93
 ATOM
          388
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                     ASP A
                                                                                      Α
                             54
                                       21.223
                                                50.499
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                                                                   1.00
                                                                         13.58
 ATOM
          389
                     ASP
                                                                                      Α
                CA
                         A
                             54
                                                49.826
                                                          21.982
                                                                   1.00
                                                                         10.96
                                                                                      Α
 ATOM
          390
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                                                          21.380
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                                                                                      Α
 ATOM
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                                                51.107
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48.416
47.637
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                     ASP A
 ATOM
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                             54
                                       21.505
                                                                   1.00 14.56
                                                         21.407
 ATOM
          396
                N
                     VAL A
                                                                                      Α
                                                47.875
                             55
                                       20.485
                                                                   1.00 12.75
1.00 12.22
                                                         23.411
 MOTA
          397
                CA
                    VAL A
                             55
                                      20.919
                                                46.541
                                                         23.799
 ATOM
                                                                                      Α
          398
                CB
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                             55
                                      21.150
                                                46.486
                                                         25.328
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ATOM
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          399
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                                      21.596
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47.518
                                                         25.775
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 ATOM
                                                                                      Α
          400
                CG2
                    VAL A
                             55
                                      22.229
                                                         25.707
                                                                   1.00
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 ATOM
                                                                                      Ά
          401
                C
                    VAL A
                             55
                                      19.840
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                                                                          9.36
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ATOM
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                         Α
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ATOM
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                         Α
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ATOM
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                         Α
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57
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MOTA
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                                                                          7.89
                                                                                     Α
MOTA
                    TRP A
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                                                                                     Α
ATOM
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                                                         22.852
25.286
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ATOM
          425
                    TRP A
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               C
                            57
57
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                                               40.575
                                                                  1.00
                                                                          9.35
ATOM
          426
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                                                         25.179
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                                                                  1.00
                                                                          9.06
ATOM
                                                                                     Α
          427
               N
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ATOM
          428
                                                                                     Α
               CA
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                            58
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                                                                         8.26
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ATOM
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MOTA
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ATOM
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MOTA
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ATOM
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ATOM
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	00000000000000000000000000000000000000	TYRALA ALA ALA ALA ALA ALA ALA ALA ALA ALA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	99 84901133 69601146624555988469059601284460598776651566201644299877665666657899188899111228877665538776652763789911112288776655543334355566276473768877766566665789918888901111288776665554333435556686778977888778787878787878787878787878	3556633336116228871332250064029322533685625540088096102990967992590914178203473462334644444444444444444444444444444	2853497056192525086644699961469996146999633333333333333333	1.00 10.19 1.00 10.75 1.00 13.42 1.00 14.68 1.00 15.37 1.00 14.04 1.00 13.32 1.00 16.88 1.00 17.04 1.00 17.74 1.00 17.74 1.00 17.74 1.00 17.74 1.00 17.75 1.00 17.74 1.00 17.75 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.54 1.00 17.55 1.00 17.55 1.00 17.55 1.00 17.55 1.00 17.55 1.00 17.55 1.00 17.55 1.00 17.52 1.00 17.52 1.00 17.52 1.00 17.52 1.00 17.52 1.00 17.52	A A A A A A A A A A A A A A A A A A A
ATOM ATOM ATOM	595 C 596 O 597 N	GLY A GLY A LYS A	81 82 82 82 82 82	7.380 8.071 8.856 7.784	41.584 40.921 41.557 39.638	25.001 26.186 26.894 26.395	1.00 11.72 1.00 13.05 1.00 8.85 1.00 10.46	A A A

ATOM ATOM ATOM ATOM ATOM ATOM	680 CG2 VAL A 93 681 C VAL A 93 682 O VAL A 93 683 N ALA A 94 684 CA ALA A 94 685 CB ALA A 94	32.592 36.033 36.162 37.064 38.425 39.204	25.643 24.745 26.148	37.694 38.527 37.025 37.236	1.00 9.49 1.00 12.26 1.00 8.00 1.00 8.64	A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	686 C ALA A 94 687 O ALA A 94 688 N ILE A 95 689 CA ILE A 95 690 CB ILE A 95 691 CG2 ILE A 95 692 CG1 ILE A 95 693 CD1 ILE A 95 694 C ILE A 95	39.197 38.906 40.210 41.016 40.870 41.522 39.401 38.566	26.374 27.530 25.709 26.290 25.486 26.261 25.218 26.491	35.921 38.329 38.625 38.894 39.963 41.465 41.641 41.909	1.00 7.88 1.00 7.97 1.00 8.61 1.00 5.77 1.00 9.66 1.00 6.29 1.00 10.13 1.00 13.60	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	695 O ILE A 95 696 N PRO A 96 697 CD PRO A 96 698 CA PRO A 96 699 CB PRO A 96 700 CG PRO A 96 701 C PRO A 96 702 O PRO A 96	42.496 43.261 42.923 42.133 44.330 44.275 43.207 45.133 44.574	26.263 25.373 27.216 28.263 27.265 28.107 29.147 27.938 28.645	39.572 40.001 38.742 38.063 38.326 37.054 37.446 39.434 40.277	1.00 8.10 1.00 10.23 1.00 6.65 1.00 7.43 1.00 9.06 1.00 8.84 1.00 10.94	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	703 N PHE A 97 704 CA PHE A 97 705 CB PHE A 97 706 CG PHE A 97 707 CD1 PHE A 97 708 CD2 PHE A 97 709 CE1 PHE A 97 710 CE2 PHE A 97 711 CZ PHE A 97	46.441 47.276 47.259 47.748 49.114 46.862 49.589	27.715 28.302 27.414 26.015 25.720 25.010 24.436 23.704	39.447 40.480 41.732 41.477 41.524 41.121 41.211 40.802	1.00 8.21 1.00 9.05 1.00 8.97 1.00 10.70 1.00 9.86 1.00 10.13 1.00 7.97 1.00 9.97 1.00 8.94	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	712 C PHE A 97 713 O PHE A 97 714 N ARG A 98 715 CA ARG A 98 716 CB ARG A 98 717 CG ARG A 98 718 CD ARG A 98 719 NE ARG A 98	48.709 48.698 49.498 50.900 51.149 52.692 54.350	23.433 28.418 27.761 29.260 29.457 30.927 31.218 32.648 32.871	40.852 39.949 38.962 40.597 40.205 39.808 39.452 39.002 38.907	1.00 7.63 1.00 9.55 1.00 9.51 1.00 8.26 1.00 11.26 1.00 12.41 1.00 12.41	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	720 CZ ARG A 98 721 NH1 ARG A 98 722 NH2 ARG A 98 723 C ARG A 98 724 O ARG A 98 725 N LYS A 99 726 CA LYS A 99 727 CB LYS A 99	55.048 54.454 56.361 51.765 51.955 52.258 53.081 52.179	33.714 34.446 33.824 29.079 29.881 27.838 27.314 26.922	39.670 40.606 39.500 41.415 42.327 41.417 42.510 43.688	1.00 20.95 1.00 19.61 1.00 16.05 1.00 22.95 1.00 12.72 1.00 13.72 1.00 14.88 1.00 10.80	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	728 CG LYS A 99 729 CD LYS A 99 730 CE LYS A 99 731 NZ LYS A 99 732 C LYS A 99 733 O LYS A 99 734 N ALA A 100 735 CA ALA A 100 736 CB ALA A 100	52.899 53.744 54.525 55.346 53.809 53.200 55.120 55.911	26.401 27.518 27.007 28.125 26.095 25.056 26.226 25.143	44.919 45.557 46.790 47.368 41.956 41.701 41.769 41.202	1.00 8.32 1.00 10.62 1.00 10.76 1.00 13.56 1.00 14.43 1.00 15.34 1.00 12.67 1.00 14.53	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	736 CB ALA A 100 737 C ALA A 100 738 O ALA A 100 739 N GLY A 101 740 CA GLY A 101 741 C GLY A 101 742 O GLY A 101 743 N GLY A 102 744 CA GLY A 102	57.354 55.960 55.929 56.061 56.133 55.786 54.853 56.543	25.629 23.900 23.987 22.751 21.476 20.360 20.479 19.274	40.914 42.072 43.303 41.409 42.096 41.136 40.338 41.195	1.00 14.12 1.00 14.42 1.00 16.53 1.00 10.16 1.00 11.78 1.00 17.78 1.00 14.78 1.00 13.81	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	745 C GLY A 102 746 O GLY A 102 747 N ASN A 103 748 CA ASN A 103 749 CB ASN A 103 750 CG ASN A 103 751 OD1 ASN A 103	54.365 55.279	18.156 17.348 16.627 17.451 16.675 16.694 15.760 15.249	40.313 40.720 39.898 41.976 42.434 43.963 44.615 43.955	1.00 20.81 1.00 16.58 1.00 16.24 1.00 17.72 1.00 16.85 1.00 15.22 1.00 23.02 1.00 19.32	A A A A A A
ATOM ATOM ATOM ATOM	752 ND2 ASN A 103 753 C ASN A 103 754 O ASN A 103 755 N ALA A 104	52.145 51.991	15.535 17.197 18.390	45.916 41.885 41.666	1.00 15.75 1.00 15.38 1.00 11.02 1.00 16.02	A A A A

ATOM 756 CC ALA 104 49.088 16.744 41.219 1.00 16.65 A ATOM 755 CC ALA 1104 49.088 15.538 40.741 1.00 20.27 A A ATOM 759 CC ALA 104 49.088 15.538 40.741 1.00 20.27 A A ATOM 759 CC ALA 104 49.088 15.538 40.741 1.00 20.27 A A ATOM 759 CC ALA 105 47.708 15.538 40.70 17.427 42.395 1.00 15.95 A A ATOM 760 N VAL A 105 47.708 15.538 40.70 11.525 A ATOM 762 CA VAL A 105 47.708 15.530 42.517 1.00 11.575 A ATOM 762 CC VAL A 105 47.708 15.530 42.517 1.00 11.575 A ATOM 762 CC VAL A 105 47.708 15.500 42.517 1.00 11.575 A ATOM 762 CC VAL A 105 46.645 21.409 43.814 1.00 16.24 A A ATOM 763 CC VAL A 105 46.645 21.409 43.814 1.00 16.24 A A ATOM 765 CC VAL A 105 46.645 21.409 43.814 1.00 16.24 A A ATOM 765 CC VAL A 105 46.645 21.409 43.814 1.00 16.24 A A ATOM 765 CC VAL A 105 46.645 21.409 43.814 1.00 16.24 A A ATOM 765 CC VAL A 105 46.641 18.807 41.295 1.00 11.50 A ATOM 765 CC VAL A 105 46.641 18.807 41.295 1.00 11.50 A ATOM 765 CC VAL A 105 46.641 18.807 41.295 1.00 11.50 A ATOM 765 CC VAL A 105 46.641 18.807 41.295 1.00 11.50 A A ATOM 765 CC VAL A 105 46.641 18.807 41.205 1.00 11.30 A A ATOM 765 CC VAL A 105 46.641 18.807 41.205 1.00 11.30 A A ATOM 768 CC VAL A 105 46.641 18.807 41.205 1.00 11.30 A A ATOM 770 CC CC ASP A 106 44.546 17.447 44.087 1.00 13.33 A A ATOM 770 CC CC ASP A 106 44.554 1.591 44.067 1.00 15.23 A A ATOM 770 CC CC ASP A 106 44.554 1.591 44.067 1.00 15.23 A A ATOM 770 CC CC ASP A 106 44.201 1.583 24.7652 1.00 16.75 A ATOM 771 CC CC ASP A 106 44.201 1.583 24.7652 1.00 16.75 A ATOM 771 CC CC ASP A 106 44.201 1.583 24.7652 1.00 16.75 A ATOM 771 CC CC ASP A 106 44.201 1.583 24.7652 1.00 16.77 A ATOM 771 CC CC ASP A 106 44.201 1.583 24.201 1.00 16.77 A ATOM 771 CC CC ASP A 106 44.201 1.583 24.201 1.00 16.77 A ATOM 771 CC CC ASP A 106 44.201 1.583 24.201 1.00 16.77 A ATOM 771 CC CC ASP A 106 44.201 1.00 16.70 A ATOM 771 CC CC ASP A 106 44.201 1.00 16.70 A ATOM 771 CC CC ASP A 106 44.201 1.00 16.70 A ATOM 775 CC A LEU A 107 44.10 A ATOM 775 CC A LEU A 107 44.10 A ATOM 775 CC A LEU A 107 44.10 A ATOM 775 CC A LEU A 1	A TOM	750	~						
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	868 NH2 869 C 870 ON 871 CA 873 874 CGI 875 CCDI 877 CO 878 N CA 888 CCDI 879 N CA 888 CCDI 888 CCDI 889 NC 888 NC 888 NC 888 CCD 891 NC	VAL A 115 VAL A 116 PHE A 117 PHE A 1116 PHE A 1117 PHE A 1119 PHE A 1119 PHE A 1119 PHE A 1119 PHE A 1110 PHE A	941424455302551412244168832715539205570360888596944766390246144118887396310881688161881618816188161881618816188		3116498330040229241464014165087778707013968290628067131170013969833044903241464014165087778820629924490324414640141650877288767013969704392706628062992490324417665077888767151588430526682708628067131170013969839844444555555555555555555555555555555	1.00 11.99 1.00 10.97 1.00 10.97 1.00 10.53 1.00 10.53 1.00 10.53 1.00 10.79 1.00 10.79 1.00 10.79 1.00 11.298 1.00 12.19 1.00 15.65 1.00 15.65 1.00 15.65 1.00 12.88 1.00 12.97 1.00 12.88 1.00 12.97 1.00 13.86 1.00 12.97 1.00 15.45 1.00 12.97 1.00 15.45 1.00 12.97 1.00 15.45 1.00 12.97 1.00 15.45 1.00 12.97 1.00 15.45 1.00 12.55 1.00 15.45 1.00 12.55 1.00 15.45 1.00 12.55 1.00 15.52 1.00 15.52	***************************************
ATOM ATOM ATOM ATOM ATOM	895 CG 896 CD2 897 CE2 898 CE3 899 CD1	TRP A 123	50.761 49.900 49.568 49.381 50.916	26.503 26.108 27.279 24.884 27.862	48.337 47.261 46.533 46.841 48.227	1.00 12.83 1.00 10.58 1.00 12.26 1.00 12.52	A A A

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	89012345678900123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890012345678900123456789001234567890012345678900123456789001234567890012345678900123456789001234567890012345678900123456789000000000000000000000000000000000000	COCONCOONCOCCOONCOONCOONCOONCOONCOONCOO	SER A 124 SER A 124 SER A 125 SER A 126 SER A 127 THR A 127 SER A 128 SER A 129 SER A 131 SER A 131 SER A 131 ARG A 131 SER A 132 SER A 132 SER A 132 SER A 133	555444444444444444455555555555555555555	000136143996667019164456627260193884073016264950569502454670069705568810736143016264950569505688107301626495056950568810730162649505688107305056950568810730505695056881073050569505688107305056950568810730505695056881056950568810569505688105695056881056950568810569505688105695056881056950568810569505688105695056881056950568810569505688105695056881056950568810569505688105695056881056950568810569505688105688	23.841497769630088410789988910013573002222222222222222222222222222222222	5244477114269999449901199281555555555555555555555555555555555	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	995113131113111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ATOM ATOM ATOM ATOM ATOM	968 969 970 971 972	CB CG C O N	PRO A 134 PRO A 134 PRO A 134 PRO A 134 ILE A 135	52 53 50 51 48 47 46 48 47 47 47 48	.196 .623 .997 .509	32.760 32.900 31.143 31.105 31.057	51.828 51.266 50.299 49.180 50.527	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	20.54 21.58 16.29 12.69 13.39	? ? ? ?

ATOM	984	CD	GLN A 136	40 000				
ATOM	985	OE1		48.999		46.905	1.00 23.10	A
ATOM				49.620	37.403	45.858	1.00 23.52	A
	986	NE2		49.233	38.585	47.714	1.00 30.84	
MOTA	987	С	GLN A 136	46.105	34.023	47.053	1.00 9.51	
ATOM	988	0	GLN A 136	46.254	33.639	45.921		
ATOM	989	N	VAL A 137	44.911	34.303			
ATOM	990	CA	VAL A 137	43.717		47.552	1.00 8.18	• -
ATOM	991	CB			34.161	46.733	1.00 4.96	
ATOM	992	_	VAL A 137	42.470	33.907	47.657	1.00 8.36	A
		CG1		41.176	34.014	46.855	1.00 5.20	A
ATOM	993	CG2		42.589	32.543	48.294	1.00 10.61	
ATOM	994	С	VAL A 137	43.442	35.380	45.837	1.00 9.91	
ATOM	995	0	VAL A 137	43.555	36.534	46.284	1.00 9.14	
ATOM	996	N	VAL A 138	43.124	35.114	44.566		A
ATOM	997	CA	VAL A 138	42.735	36.134			
ATOM	998	CB	VAL A 138	43.437		43.600	1.00 8.67	
MOTA	999	CG1	VAL A 138	42.983	35.976	42.226	1.00 9.91	A
ATOM	1000	CG2			37.092	41.301	1.00 11.71	A
ATOM	1001	Č		44.947	36.068	42.394	1.00 18.67	
ATOM	1002		VAL A 138	41.237	35.914	43.386	1.00 7.40	A
		0	VAL A 138	40.791	34.775	43.196	1.00 7.75	A
MOTA	1003	N	TYR A 139	40.452	36.987	43.435	1.00 9.87	
ATOM	1004	CA	TYR A 139	39.009	36.871	43.256	1.00 9.42	A
ATOM	1005	CB	TYR A 139	38.303	36.902	44.625	1.00 8.26	A
MOTA	1006	CG	TYR · A 139	38.509	38.192	45.389	1.00 9.37	Ä
MOTA	1007	CD1	TYR A 139	37.570	39.211	45.322	1.00 8.61	
MOTA	1008	CE1	TYR A 139	37.748	40.424	46.013		A
MOTA	1009	CD2	TYR A 139	39.659	38.397	46.177		A
MOTA	1010	CE2	TYR A 139	39.853	39.616	46.878		A
MOTA	1011	CZ	TYR A 139	38.890				A
ATOM	1012	OH	TYR A 139	39.045	40.623	46.786	1.00 15.66	A
ATOM	1013	C.	TYR A 139		41.829	47.459	1.00 8.23	A
ATOM	1014	ŏ	TYR A 139	38.507	38.006	42.381	1.00 8.45	A
ATOM	1015			39.246	38.947	42.099	1.00 8.15	A
MOTA		N	ARG A 140	37.259	37.899	41.935	1.00 8.93	A
	1016	CA	ARG A 140	36.660	38.903	41.070	1.00 7.41	A
ATOM	1017	CB	ARG A 140	35.514	38.296	40.243	1.00 10.32	A
ATOM	1018	CG	ARG A 140	35.991	37.317	39.148	1.00 5.86	A
ATOM	1019	CD	ARG A 140	36.556	38.103	37.948	1.00 5.80	A
ATOM	1020	NE	ARG A 140	35.502	38.821	37.218	1.00 7.23	
ATOM	1021	CZ	ARG A 140	34.659	38.232	36.376	1.00 11.87	A
MOTA	1022	NHl	ARG A 140	34.748	36.918	36.152		A
ATOM	1023	NH2	ARG A 140	33.715	38.952	35.769		A
ATOM	1024	С	ARG A 140	36.129	40.063		1.00 8.31	A
ATOM	1025	ŏ	ARG A 140	35.327		41.895	1.00 8.44	A
ATOM	1026	N	ALA A 141		39.896	42.832	1.00 8.91	A
ATOM	1027	CA	ALA A 141	36.583	41.242	41.523	1.00 8.44	A
ATOM	1028	CB		36.198	42.471	42.206	1.00 8.99	A
ATOM	1029		ALA A 141	37.121	43.579	41.761	1.00 12.40	Α
ATOM		C	ALA A 141	34.748	42.895	41.975	1.00 11.15	Α
	1030	0	ALA A 141	34.091	43.421	42.878	1.00 9.17	A
ATOM	1031	N	GLU A 142	34.258	42.679	40.765	1.00 10.41	A
ATOM	1032	CA	GLU A 142	32.912	43.110	40.401	1.00 11.28	A
ATOM	1033	CB	GLU A 142	32.944	43.735	38.995	1.00 11.17	A
MOTA	1034	CG	GLU A 142	32.968	42.720	37.800	1.00 16.02	A
MOTA	1035	CD	GLU A 142	34.319	41.984	37.551	1.00 14.71	Ā
ATOM	1036	OE1	GLU A 142	35.102	41.758	38.492	1.00 20.26	Ã
MOTA	1037	OE2	GLU A 142	34.582	41.608	36.382	1.00 15.07	Â
ATOM	1038	С	GLU A 142	31.854	42.001	40.428	1.00 15.45	
ATOM	1039	0	GLU A 142	32.160	40.827	40.689	1.00 11.17	A
ATOM	1040	N	VAL A 143	. 30.604	42.399	40.170		A
ATOM	1041	CA	VAL A 143	29.474	41.461	40.114		A
ATOM	1042	CE	VAL A 143	28.155	42.192		1.00 12.65	A
ATOM	1043	CG1	VAL A 143	27.052		39.792	1.00 12.26	A
ATOM	1044	CG2	VAL A 143		41.196	39.668	1.00 17.81	A
ATOM	1045	C	VAL A 143	27.822	43.174	40.870	1.00 18.80	A
ATOM	1046	ŏ	VAL A 143	29.770	40.456	38.996	1.00 12.06	A
ATOM	1047			29.785	40.814	37.811	1.00 10.75	A
		N	SER A 144	29.972	39.198	39.388	1.00 10.21	A
ATOM	1048	CA	SER A 144	30.352	38.119	38.462	1.00 6.60	A
ATOM	1049	CB	SER A 144	31.822	37.764	38.758	1.00 8.21	A
ATOM	1050	QG	SER A 144	32.188	36.468	38.328	1.00 8.64	A
ATOM	1051	С	SER A 144	29.499	36.834	38.512	1.00 7.57	Ā
ATOM	1052	0	SER A 144	29.166	36.346	39.601	1.00 8.05	Ä
ATOM	1053	N	GLY A 145	29.168	36.303	37.330	1.00 5.34	A
ATOM	1054	CA	GLY A 145	28.437	35.047	37.226	1.00 7.72	
ATOM	1055	C	GLY A 145	29.335	33.884	37.638		A
ATOM	1056	ŏ	GLY A 145	28.873	32.870	38.197		A
ATOM	1057	N	THR A 146	30.628	34.001		1.00 6.69	A
ATOM	1058	CA	THR A 146			37.357	1.00 6.57	A
ATOM	1059	CB	THR A 146	31.574	32.953	37.758	1.00 6.39	Α
111011	1033	CD	TUV W 140	33.012	33.263	37.279	1.00 9.37	Α

ATOM ATOM	1060 1061	OG1 CG2			33.026 33.928	33.463	35.855	1.00	8.49	A
MOTA MOTA	1062 1063	C	THR A	146 146	31.569 31.601	32.087 32.892 31.802	37.613 39.294 39.888	1.00 1.00 1.00	11.25 8.02 8.00	A A A
ATOM ATOM	1064 1065	N CA	THR A		31.551 31.483	34.064 34.131	39.930 41.394	1.00	6.33	A A
ATOM ATOM	1066 1067	CB OG1	THR A		31.554 32.834	35.591 36.161	41.921 41.624	1.00	6.29 7.92	A A
MOTA MOTA MOTA	1068 1069 1070	CG2	THR A	147 147	31.373 30.175	35.602 33.486	43.450 41.885	1.00	8.46 5.86	A A
ATOM ATOM	1071 1072	O N CA	THR A GLU A GLU A	147 148 148	30.172 29.059	32.745 33.751	42.883 41.198	1.00	7.90 5.81	A A
ATOM ATOM	1073	CB CG	GLU A GLU A	148 148	27.786 26.644 25.284	33.131	41.592 40.710	1.00	5.50 6.06	A A
ATOM ATOM	1075 1076	CD OE1	GLU A	148 148	24.076 23.920	33.004 33.737 34.966	41.058 40.457 40.685	1.00	10.99	A A
MOTA MOTA	1077 1078	OE2 C		148 148	23.271 27.846	33.078 31.591	39.765 41.491	1.00 1.00 1.00	9.92 13.03 6.20	A A
MOTA MOTA	1079 1080	O N	GLU A LEU A	148 149	27.419 28.318	30.866 31.077	42.408	1.00	7.44 4.66	A A A
ATOM ATOM	1081 1082	CA CB	LEU A	149 149	28.442 29.011	29.616 29.301	40.196 38.807	1.00	6.87 7.74	A A
ATOM ATOM	1083 1084	CG CD1	LEU A	149 149	28.105 28.878	29.569 29.218	37.591 36.342	1.00	8.75 10.50	A A
ATOM ATOM ATOM	1085 1086 1087	CD2 C O	LEU A LEU A	149 149	26.804 29.376	28.721 28.980	37.678 41.254	1.00	9.52 7.07	A A
ATOM ATOM	1088	N CA	PHE A	149 150 150	29.127 30.473 31.459	27.865 29.670	41.754	1.00	7.65 8.71	A A
ATOM ATOM	1090 1091	CB CG	PHE A	150 150	32.752 33.884	29.183 30.021 29.551	42.540 42.427 43.325	1.00 1.00 1.00	7.06 6.97	A A
MOTA MOTA	1092 1093	CD1 CD2	PHE A	150 150	34.313 34.557	28.225 30.455	43.305	1.00	9.24 10.27 12.03	A A A
ATOM ATOM	1094 1095	CE1	PHE A		35.411 35.657	27.803 30.050	44.081 44.920	1.00	12.21	A A
ATOM ATOM ATOM	1096	CZ	PHE A	150 150	36.083 30.936	28.721 29.217	44.890 43.987	1.00	10.56	A A
ATOM ATOM	1098 1099 1100	O N CA	PHE A THR A THR A	150 151 151	31.060 30.350	28.236	44.709	1.00	6.52 7.57	A A
ATOM ATOM	1101 1102	CB OG1	THR A		29.836 29.548 28.580	30.437 31.938 32.526	45.770 46.193 45.314	1.00 1.00 1.00	8.97 9.78	A A
ATOM ATOM	1103 1104	CG2 C		151	30.826 28.588	32.744 29.588	46.152 45.988	1.00	8.77 7.96 7.22	A A A
ATOM ATOM	1105 1106	И О	THR A ARG A	152	28.274 27.873	29.245 29.229	47.131 44.916	1.00	7.49 5.13	A A
MOTA .		CA CB		152	26.715 25.914	28.351 28.189	45.099 43.796	1.00	9.17 9.15	A A
ATOM ATOM ATOM	1109 1110 1111	CG CD NE	ARG A ARG A		24.606 23.671	27.376 27.529	43.974	1.00	10.79 17.61	A A
ATOM ATOM	1112	CZ NH1	ARG A ARG A	152	23.071 23.188 22.605	28.868 29.662 30.860	42.641 41.577 41.565	1.00	14.93	A
ATOM ATOM	1114 1115	NH2 C	ARG A	152	23.885	29.265 27.007	40.518	1.00 1.00 1.00	11.71 11.02 7.79	A A A
ATOM ATOM	1116 1117	N O	ARG A PHE A	153	26.671 29.436	26.313 26.639	46.389 45.017	1.00	5.08 6.70	A A
ATOM ATOM	1118	CA CB	PHE A	153	29.101 30.280	25.395 25.059	45.413 44.478	1.00	9.70 7.27	A A
ATOM ATOM ATOM	1120 1121 1122	CG CD1 CD2	PHE A PHE A	153	30.974	23.747	44.812	1.00	6.93 9.41	A A
ATOM ATOM	1123	CE1 CE2	PHE A	153	32.134 31.069 32.764	23.738 21.315 22.534	45.592 44.747 45.959	1.00	9.61	A A
ATOM ATOM	1125 1126	CZ	PHE A	153	32.229	21.323 25.503	45.537 46.842	1.00 1.00 1.00	13.90 11.19 8.50	A A
ATOM ATOM	1127 1128	N O	PHE A LEU A	153 154	29.455 30.320	24.586 26.599	47.638 47.167	1.00	8.41 6.84	A A A
ATOM ATOM	1129 1130	CA CB	LEU A	154	30.877 31.672	26.752 28.060	48.521 48.657	1.00	6.20	A A
ATOM ATOM	1131	CD1	LEU A	154	32.876	28.250 29.583	47.720 48.020	1.00 1.00	6.30 9.48	A A
ATOM ATOM ATOM	1133 1134 1135	CD2	LEU A	154	33.893	27.117 26.737	47.886 49.564	1.00	6.15 6.13	A A
		~	LEU A	キ リマ	29.912	26.170	50.641	1.00	9.16	A

ATOM ATOM	1136 1137	N CA		A 155 A 155	28.652 27.493	27.376 27.430	49.233 50.116	1.00 5.19 1.00 6.32	À
MOTA MOTA	1138 1139 1140		ASN ASN ASN A	A 155 A 155	26.406 25.093 24.149	28.314 28.294 27.596	49.486 50.274 49.906	1.00 6.32 1.00 11.33 1.00 14.59 1.00 9.21	A A A
ATOM ATOM ATOM	1141 1142 1143	ND2 C O	ASN A	A 155	25.034 26.929	29.062 26.042	51.361 50.363	1.00 8.23 1.00 8.76	A A A
MOTA MOTA	1144 1145	N CA	ASN A ALA A ALA	A 156	26.465 26.965 26.418	25.712 25.203 23.867	51.465 49.336	1.00 8.00	A A
ATOM ATOM	1146 1147	CB C	ALA A	A 156 A 156	26.068 27.336	23.300	49.493 48.119 50.222	1.00 7.63 1.00 8.06 1.00 12.23	A A
ATOM ATOM ATOM	1148 1149 1150	O N CA	ALA A LYS A	157	26.854 28.646	22.037 23.029	50.994 50.015	1.00 9.62 1.00 9.93	A A A
ATOM ATOM	1151 1152	CB CG	LYS A	157	29.623 30.437 29.604	22.064 21.527 20.877	50.537 49.352 48.227	1.00 10.69 1.00 14.97	A A
ATOM ATOM ATOM	1153 1154	CD	LYS A	157 157	28.855 28.357	19.640 18.784	48.729 47.575	1.00 13.56 1.00 16.77 1.00 22.67	A A A
ATOM ATOM	1155 1156 1157	NZ C O	LYS A LYS A	157	27.652 30.611 31.215	17.546 22.438 21.552	48.069 51.638	1.00 21.73 1.00 8.73	A A
ATOM ATOM	1158 1159	N CA	CYS A	158	30.821 31.759	23.725 24.132	52.245 51.876 52.916	1.00 11.63 1.00 8.12 1.00 8.20	A A A
MOTA MOTA	1160 1161 1162	C O CB	CYS A CYS A CYS A	158	30.974 30.648 32.390	24.252 25.349	54.207 54.661	1.00 9.14 1.00 10.53	A A
ATOM ATOM	1163 1164	SG N	CYS A	158	33.331 30.699	25.464 ·25.358 23.108	52.537 50.982 54.822	1.00 10.13 1.00 11.82 1.00 8.92	A A
ATOM ATOM ATOM	1165 1166 1167	CA CB OG1	THR A THR A THR A	159	29.856 28.850	23.091 21.933	56.017 55.903	1.00 6.75 1.00 10.13	A A A
MOTA MOTA	1168 1169	CG2 C		159	29.551 28.146 30.545	20.690 21.989 23.021	55.987 54.527 57.361	1.00 12.88 1.00 14.84 1.00 8.62	A A
ATOM ATOM ATOM	1170 1171 1172	O N CA	THR A	160	29.878 31.875	22.956 23.038	58.398 57.358	1.00 8.02 1.00 7.39 1.00 8.39	A A A
ATOM ATOM	1173 1174	CB OG1	THR A THR A THR A	160	32.603 33.194 34.011	22.980 21.558 21.140	58.612 58.889 57.788	1.00 9.53 1.00 8.99 1.00 12.55	A A
ATOM ATOM ATOM	1175 1176 1177	CG2 C O	THR A	160 160	32.083 33.727	20.559 24.010	59.114 58.712	1.00 12.33 1.00 11.60 1.00 10.20	A A A
ATOM ATOM	1178 1179	N CA	THR A GLN A GLN A	161	34.774 33.523 34.525	23.739 25.189 26.260	59.314 58.121 58.254	1.00 8.76 1.00 8.66 1.00 9.46	A A
ATOM ATOM ATOM	1180 1181 1182	CB CG	GLN A	161	34.564 34.956	27.121 26.309	56.989 55.742	1.00 9.46 1.00 9.58 1.00 7.83	A A A
ATOM ATOM	1183 1184	CD OE1 NE2	GLN A GLN A	161	36.305 36.429 37.306	25.608 24.396 26.374	55.936 55.758	1.00 10.81	A A
MOTA MOTA	1185 1186	0	GLN A GLN A	161 161	34.058 32.979	27.096 26.866	56.313 59.449 59.960	1.00 10.64 1.00 8.71 1.00 8.58	A A A
ATOM ATOM ATOM	1187 1188 1189	N CD CA	PRO A PRO A PRO A	162	34.870 36.316	28.047 28.193	59.928 59.693	1.00 11.51 1.00 10.65	A A
MOTA MOTA	1190 1191	CB CG	PRO A	162 162	34.433 35.631 36.786	28.869 29.780 28.884	61.071 61.326 60.979	1.00 9.23 1.00 11.89 1.00 14.39	. A
ATOM ATOM ATOM	1192 1193 1194	C O N	PRO A PRO A GLY A	162	33.171 32.280	29.660 29.838	60.727 61.567	1.00 10.67 1.00 12.32	A A A
ATOM ATOM	1195 1196	CA C	GLY A GLY A	163	33.112 31.943 31.307	30.158 30.903 30.149	59.492 59.040 57.883	1.00 8.94 1.00 11.83 1.00 11.53	A A
ATOM ATOM ATOM	1197 1198 1199	N O	GLY A THR A	164	31.687 30.359	28.989 30.781	57.628 57.178	1.00 9.27 1.00 7.79	A A A
ATOM ATOM	1200 1201	CA CB OG1	THR A THR A THR A	164 164	29.698 28.213 27.565	30.140 29.775 30.914	56.039 56.347 56.934	1.00 10.06 1.00 9.77 1.00 12.97	A A
ATOM ATOM ATOM	1202 1203 1204	CG2 C	THR A	164	28.119 29.696	28.585 31.081	57.328 54.837	1.00 12.97 1.00 7.94 1.00 10.41	A A A
MOTA MOTA	1204 1205 1206	O N CA	THR A PHE A PHE A	165	29.786 29.571 29.551	32.301 30.507 31.275	55.001 53.637 52.395	1.00 7.96 1.00 7.32 1.00 9.34	A A
ATOM ATOM	1207 1208	CB CG	PHE A	165 165	30.321 31.799	30.541 30.451	51.299 51.539	1.00 9.34 1.00 8.51 1.00 7.69	A A A
ATOM ATOM ATOM	1209 1210 1211	CD2	PHE A PHE A	165	32.659 32.338 34.062	31.455 29.338 31.349	51.096 52.181 51.288	1.00 8.05 1.00 10.52	A A
							J 200	1.00 6.48	A

ATOM ATOM		E2 PHE A 165 Z PHE A 165			52.385	1.00 €.4	
MOTA	1213 C			30.221 31.467	51.935 51.854	1.00 7.8	
ATOM	1215 0	PHE A 165	27.428	30.485	51.648	1.00 11.8	
MOTA MOTA	1216. א 1217 C			32.712 33.000	51.601	1.00 8.8	0 A
ATOM	1218 C	B ALA A 166	25.942	34.397	51.006 51.423	1.00 10.9 1.00 10.5	
ATOM ATOM	1219 C 1220 O			32.960	49.483	1.00 10.5	8 A
ATOM	1221 N	VAL A 167	25.516	33.182 32.668	48.968 48.766	1.00 7.6 1.00 9.2	
ATOM ATOM	1222 C 1223 C		25.572 24.384	32.658	47.303	1.00 7.7	1 A
MOTA	1224 C	G1 VAL A 167	24.546	31.924 31.870	46.686 45.159	1.00 7.7 1.00 8.0	
MOTA MOTA	1225 C	G2 VAL A 167 VAL A 167	24.283 25.473	30.511	47.265	1.00 10.6	1 A
MOTA	1227 0	VAL A 167	24.523	34.123 34.816	46.875 47.244	1.00 8.9 1.00 7.7	
MOTA MOTA	1228 N 1229 C		26.408 26.411	34.580	46.048	1.00 8.1	3 A
MOTA	1230 C	B THR A 168	27.060	35.974 36.810	45.653 46.769	1.00 6.6	
MOTA MOTA		G1 THR A 168 G2 THR A 168	27.129 28.478	38.188	46.370	1.00 12.3	5 A
MOTA	1233 C	THR A 168	27.228	36.311 36.178	47.040 44.375	1.00 12.2	
ATOM ATOM	1234 O 1235 N	THR A 168 THR A 169	27.960 27.106	35.282	43.947	1.00 11.2	2 A
MOTA	1236 C	A THR A 169	27.108	37.352 37.641	43.770 42.580	1.00 9.30	
MOTA MOTA	1237 CI 1238 O	B THR A 169 31 THR A 169	27.074 26.724	38.484	41.555	1.00 11.7	9 A
ATOM	1239 C	G2 THR A 169	25.811	39.739 37.747	42.159 41.128	1.00 9.7	
MOTA MOTA	1240 C 1241 O	THR A 169 THR A 169	29.156 30.000	38.450	42.953	1.00 9.0	3 A
ATOM	1242 N	VAL A 170	29.279	38.712 38.848	42.099 44.224	1.00 8.6	
ATOM ATOM	1243 CA 1244 CB		30.430 29.944	39.641	44.680	1.00 11.0	7 A
MOTA	1245 C	31 VAL A 170	29.433	41.003 41.863	45.248 44.106	1.00 8.64	
ATOM ATOM	1246 CC 1247 C	32 VAL A 170 VAL A 170	28.802 31.158	40.805 38.830	46.208	1.00 14.2) A
MOTA	1248 0	VAL A 170	30.694	38.747	45.741 46.859	1.00 10.94	
MOTA MOTA	1249 N 1250 CA	PHE A 171 A PHE A 171	32.305 33.003	38.247 37.367	45.386	1.00 11.60	5 A
MOTA	1251 CE	B PHE A 171	34.279	36.775	46.312 45.677	1.00 9.5; 1.00 8.6	
MOTA MOTA	1252 CC 1253 CI	F PHE A 171 D1 PHE A 171	34.940 36.009	35.686 35.978	46.519 47.358	1.00 10.69	A
ATOM	1254 CI	D2 PHE A 171	34.457	34.377	46.502	1.00 9.84	
ATOM ATOM	1255 CE	E1 PHE A 171 E2 PHE A 171	36.593 35.024	34.986 33.377	48.184 47.311	1.00 8.85	
MOTA MOTA	1257 C2	PHE A 171	36.096	33.686	48.158	1.00 12.76 1.00 12.60	
ATOM	1258 C 1259 O	PHE A 171 PHE A 171	33.353 33.292	37.977 37.294	47.661 48.679	1.00 12.59	
ATOM ATOM	1260 N	ALA A 172	33.704	39.257	47.677	1.00 6.53	
ATOM	1261 CA 1262 CE		34.088 34.655	39.865 41.279	48.946 48.721	1.00 9.02	
MOTA MOTA	1263 C	ALA A 172	32.948	39.885	49.957	1.00 9.26	
ATOM	1264 O 1265 N	ALA A 172 ASN A 173	33.188 31.714	40.071 39.677	51.155 49.493	1.00 10.96 1.00 8.23	• • •
MOTA MOTA	1266 CA 1267 CE		30.563	39.651	50.409	1.00 10.55	A
MOTA	1268 CG		29.361 29.628	40.396 41.862	49.822 49.606	1.00 11.87	
MOTA MOTA	1269 OD 1270 ND	01 ASN A 173 02 ASN A 173	30.289	42.512	50.412	1.00 13.36	A
MOTA	1271 C	02 ASN A 173 ASN A 173	29.098 30.062	42.398 38.245	48.515 50.759	1.00 16.29	
ATOM ATOM	1272 O 1273 N	ASN A 173 SER A 174	29.077	38.109	51.498	1.00 10.89	A
MOTA	1274 CA	SER A 174	30.71 <i>6</i> 30.250	37.212 35.859	50.238 50.468	1.00 7.67 1.00 9.24	
ATOM ATOM	1275 CB 1276 OG		30.869	34.905	49.429	1.00 9.01	A
ATOM	1277 C	SER A 174	30.35 <i>9</i> 30.440	33.580 35.250	49.598 51.863	1.00 8.15 1.00 7.73	
MOTA MOTA	1278 0	SER A 174	29.480	34.822	52.506	1.00 8.54	
MOTA	1279 N 1280 CA		31.684 31.978	35.160 34.535	52.303 53.599	1.00 6.67 1.00 6.35	
ATOM ATOM	1281 CB 1282 CG	TYR A 175	33.493	34.371	53.735	1.00 7.83	A
ATOM	1283 CD	1 TYR A 175	33.928 34.845	33.429 33.842	54.847 55.825	1.00 6.19 1.00 9.13	
ATOM ATOM	1284 CE 1285 CD		35.315	32.938	56.811	1.00 7.78	A
MOTA	1286 CE	2 TYR A 175	33.481 33.93 <i>9</i>	32.102 31.206	54.879 55.856	1.00 6.63 1.00 9.07	
ATOM	1287 CZ	TYR A 175	34.859	31.633	56.812	1.00 11.83	

FIGURE 5 (suite)

ATOM 1283 ATOM 1293 ATOM 1303 ATOM 1313 ATOM 1323 ATOM 1333 ATOM 1336 ATOM 1346 ATOM 1347 ATOM 1347 ATOM 1348 ATOM 1348 ATOM 1356
CONCESSOR OF CONCE
LEU A 177 LEU A 177 LEU A 177 GLY A 178 GLY A 178 GLY A 178 GLY A 178 GLY A 179 LEU A 180 SER A 181 PRO A 182 LEU A 183 ALA A 185 ALA A 186 VAL A 186 VAL A 186 VAL A 186
84495428272331796964553788994666000998804736665342806036882597311.6613229333333333333333333333333333333333
1556713367.7513999940072729996571173333333333333333333333333333333333
616388759488194262334158421004755322440960986333709688235309688956611151794941918682755555555555555555555555555555555555
1.00
A A A A A A A A A A A A A A A A A A A

MOTA	1364	N	ALA A 188	40.543	41.328	41.085	1 00	0 30	_
ATOM	1365	CA	ALA A 188	40.832	41.672	39.672	1.00 1.00	8.38	A A
MOTA MOTA	1366 1367	CB C	ALA A 188 ALA A 188	41.725 39.515	40.609	39.018		10.94	A
ATOM	1368	ŏ	ALA A 198	38.510	41.759 41.196	38.913 39.349	1.00	9.75	A A
MOTA MOTA	1369	N	ILE A 189	39.543	42.434	37.766		10.19	Â
ATOM	1370 1371	CA CB	ILE A 189 ILE A 189	38.355 38.300	42.646 44.126	36.936 36.487	1.00	9.71	A
MOTA	1372	CG2	ILE A 189	37.056	44.394	35.606		14.84 12.56	A A
MOTA MOTA	1373 1374	CG1		38.247	45.007	37.720	1.00	13.85	A
MOTA	1375	CD1	ILE A 189 ILE A 189	36.964 38.307	44.848 41.760	38.520 35.705		20.17 11.18	A
MOTA	1376	0	ILE A 189	39.260	41.715	34.930	1.00		A A
ATOM ATOM	1377 1378	N CA	GLY A 190 GLY A 190	37.185 37.039	41.062 40.181	35.518	1.00		A
MOTA	1379	С	GLY A 190	37.836	38.881	34.368 34.432	1.00	9.66	A A
ATOM ATOM	1380 1381	O N	GLY A 190 SER A 191	38.763	38.745	35.238	1.00	12.00	Α
ATOM	1382	CA	SER A 191	37.494 38.216	37.919 36.644	33.570 33.539		12.31 11.69	A A
MOTA	1383	CB	SER A 191	37.530	35.671	32.568	1.00	8.59	A
ATOM ATOM	1384 1385	OG C	SER A 191 SER A 191	36.224 39.678	35.299 36.896	33.026 33.104		10.08	A
ATOM	1386	0	SER A 191	40.612	36.295	33.638	1.00 1	11.39	A A
ATOM ATOM	1387 1388	N CA	VAL A 192 VAL A 192	39.880 41.235	37.809	32.156		11.76	A
ATOM	1389	CB	VAL A 192	41.273	38.101 39.029	31.704 30.449		L4.84 L3.34	A A
ATOM ATOM	1390	CG1		40.838	38.252	29.213	1.00 2	24.13	Ä
ATOM	1391 1392	CG2 C	VAL A 192 VAL A 192	40.396 42.056	40.246 38.767	30.678 32.804		29.05 11.65	A A
MOTA	1393	0	VAL A 192	43.247	38.485	32.940		14.10	A
ATOM ATOM	1394 1395	N CA	GLY A 193 GLY A 193	41.431 42.149	39.670 40.344	33.559 34.626		12.08	A
MOTA	1396	С	GLY A 193	42.575	39.354	35.700		l2.16 l4.30	A A
ATOM ATOM	1397 1398	о И	GLY A 193 VAL A 194	43.652	39.486	36.291	1.00	9.20	A
ATOM	1399	CA	VAL A 194	41.725 42.069	38.369 37.370	35.976 36.992	1.00	9.32	A A
ATOM ATOM	1400 1401	CB	VAL A 194	40.845	36.459	37.341	1.00	7.74	Ä
ATOM	1401	CG1 CG2	VAL A 194 VAL A 194	41.309 39.873	35.168 37.247	38.071 38.259	1.00	8.55 11.33	A A
MOTA	1403	C	VAL A 194	43.256	36.524	36.530		10.65	A
ATOM ATOM	1404 1405	N O	VAL A 194 MET A 195	44.158 43.261	36.255 36.090	37.318 35.265	1.00 1	10.00 9.82	A
ATOM	1406	CA	MET A 195	44.391	35.306	34.775		1.27	A A
ATOM ATOM	1407 1408	CB CG	MET A 195 MET A 195	44.125 43.342	34.727 33.449	33.381		13.33	Α
MOTA	1409	SD	MET A 195	43.794	32.237	33.381 34.698		L6.98 L9.79	A A
ATOM ATOM	1410 1411	CE C	MET A 195 MET A 195	45.205	31.419	34.043	1.00	16.46	Α
ATOM	1412	ŏ	MET A 195 MET A 195	45.672 46.757	36.118 35.579	34.719 34.948		12.67 15.56	A A
ATOM	1413	N	ALA A 196	45.566	37.401	34.385		11.82	Â
ATOM ATOM	1414 1415	CA CB	ALA A 196 ALA A 196	46.750 46.404	38.239 39.633	34.346 33.833		L5.74 L4.20	A
MOTA	1416	С	ALA A 196	47.331	38.323	35.768		16.81	A A
ATOM ATOM	1417 1418	N O	ALA A 196 ALA A 197	48.544 46.464	38.245 38.468	35.945 36. 7 78	1.00 1		A
MOTA	1419	CA	ALA A 197	46.939	38.538	38.151	1.00 1	13.86	A A
ATOM ATOM	1420 1421	CB C	ALA A 197 ALA A 197	45.790	38.865	39.108	1.00 1	13.70	A
ATOM	1422	ŏ	ALA A 197	47.547 48.618	37.203 37.159	38.542 39.147	1.00 1		A A
ATOM	1423	N	ASP A 198	46.853	36.119	38.202	1.00 1	2.41	Α
ATOM ATOM	1424 1425	CA CB	ASP A 198 ASP A 198	47.326 46.311	34.777 33.719	38.547 38.074	1.00 1		A A.
ATOM	1426	CG	ASP A 198	46.605	32.327	38.629	1.00 2		A A
ATOM ATOM	1427 1428	OD1	ASP A 198 ASP A 198	46.440 47.004	32.107 31.449	39.857 37.834	1.00 3		A
ATOM	1429	c	ASP A 198	48.699	34.509	37.928	1.00 3		A A
ATOM ATOM	1430 1431	N O	ASP A 198 ASN A 199	49.570	33.942	38.585	1.00 1	8.27	Α
ATOM	1432	CA	ASN A 199 ASN A 199	48.900 50.173	34.941 34.733	36.684 35.980	1.00 1		A A
ATOM	1433	CB	ASN A 199	49.941	34.565	34.478	1.00 1	9.50	Ä
ATOM ATOM	1434 1435	CG OD1	ASN A 199 ASN A 199	49.270 49.454	33.263 32.254	34.122 34.786	1.00 2		A
MOTA	1436	ND2	ASN A 199	48.504	33.275	33.041	1.00 2		A A
ATOM ATOM	1437 1438	С О	ASN A 199 ASN A 199	51.227 52.272	35.832 35.762	36.144	1.00 2		A
ATOM	1439	N	ASP A 200	50.973	36.838	35.507 36.970	1.00 2		A A

ATOM 1510 C THR A 209 40.751 30.534 41.319 1.00 10.48 ATOM 1511 O THR A 209 40.978 29.326 41.215 1.00 10.85 ATOM 1512 N TYR A 210 39.577 31.087 40.997 1.00 8.58	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	0144234 444234 444234 44444556789 1444444 1445556789 1446678 144778 14488 14499	ABGOODO ON COCOO NA COCOO O NA COCOO NA	ASP A 200 ASP A 200 ASP A 200 VAL A 201 THR A 202 THR A 202 THR A 202 THR A 202 THR A 203	2506662225519000017166913068622314158693239639339224334949675094533874488555555555555555555555555555555	37.985 40.296 37.985 40.296 37.985 40.296 37.986 37.036 37.036 37.036 37.036 37.036 37.036 37.036 37.036 37.036 37.036 38.036 39.036 41.036	482053 482053 482053 482053 482053 482053 482053 482053 482053 482053 482053 482053 482053 482053 482053 48305 483053 483053 483053 483053 483053 483053 483053 483053	1.00 20.54 1.00 22.32 1.00 23.11 1.00 26.57 1.00 21.98 1.00 21.98 1.00 21.71 1.00 24.01 1.00 25.93 1.00 26.53 1.00 26.53 1.00 23.59 1.00 23.53 1.00 23.53 1.00 23.53 1.00 23.53 1.00 23.53 1.00 23.53 1.00 23.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.68 1.00 25.69 1.00 26.13 1.00 25.59 1.00 17.47 1.00 18.21 1.00 16.26 1.00 18.50 1.00 16.27 1.00 16.27 1.00 16.27 1.00 16.27 1.00 16.27 1.00 17.47 1.00 16.27 1.00 17.77 1.00 18.66 1.00 13.78 1.00 12.81 1.00 12.81 1.00 12.81	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
ATOM 1514 CB TYR A 210 37.244 30.304 41.350 1.00 4.35	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1504 1505 1506 1507 1508 1509 1510 1511 1512 1513	O N CA CB OG1 CG2 C O N CA CB	ILE A 208 THR A 209 TYR A 210 TYR A 210 TYR A 210	43.664 43.098 41.825 42.055 40.906 42.310 40.751 40.978 39.577 38.476 37.244	32.335 30.776 31.470 32.610 33.455 32.030 30.534 29.326 31.087 30.303 30.304	43.649 42.145 41.864 40.789 39.460 41.319 41.215 40.997 40.422 41.350	1.00 12.81 1.00 7.78 1.00 9.01 1.00 11.48 1.00 12.27 1.00 10.48 1.00 10.85 1.00 8.58 1.00 8.34 1.00 4.35	A A A

FIGURE 5 (suite)

7 TO 14	1011	~ ~						
MOTA MOTA	1516 1517	CD1 CE1			32.240	40.927	1.00 6.11	A
ATOM	1518	CD2			33.509 32.386	41.235	1.00 7.73	A
MOTA	1519	CE2			33.643	42.778 43.086	1.00 6.57	Ā
ATOM	1520	CZ	TYR A 210		34.203	42.313	1.00 5.93 1.00 8.47	A
MOTA	1521	ОН	TYR A 210	35.242	35.475	42.598	1.00 8.24	A A
ATOM ATOM	1522 1523	C	TYR A 210		30.983	39.087	1.00 5.52	Ā
ATOM	1523	N N	TYR A 210 ILE A 211		32.222	39.010	1.00 9.37	A
ATOM	1525	CA	ILE A 211		30.201 30.832	38.032	1.00 6.28	Α
MOTA	1526	CB	ILE A 211	39.085	31.384	36.735 36.235	1.00 7.52 1.00 11.97	A
ATOM	1527	CG2		39.990	30.231	35.830	1.00 10.21	A A
ATOM ATOM	1528 1529	CG1 CD1			32.361	35.075	1.00 14.62	Α.
ATOM	1530	C	ILE A 211 ILE A 211		33.203	34.806	1.00 15.71	A
MOTA	1531	Ō	ILE A 211		29.936 28.703	35.648 35.778	1.00 8.22 1.00 8.13	A
ATOM	1532	N	SER A 212	36.634	30.590	34.602	1.00 9.06	A A
ATOM ATOM	1533 1534	CA CB	SER A 212		29.913	33.394	1.00 9.98	A
ATOM	1535	OG	SER A 212 SER A 212		30.934	32.256	1.00 8.45	Α
ATOM	1536	Ċ	SER A 212		30.283 28.904	31.037 32.914	1.00 9.53 1.00 10.00	A
ATOM	1537	0	SER A 212	38.361	29.234	32.812	1.00 10.00	A A
ATOM ATOM	1538 1539	N CD	PRO A 213	36.761	27.668	32.585	1.00 8.50	Ä
ATOM	1540	CA	PRO A 213 PRO A 213	35.436 37.781	27.030 26.728	32.686 32.117	1.00 4.78	Α
ATOM	1541	CB	PRO A 213	37.035	25.392	32.059	1.00 8.39 1.00 10.29	A
ATOM	1542	CG	PRO A 213	35.578	25.849	31.743	1.00 10.29	A A
ATOM ATOM	1543 1544	C	PRO A 213 PRO A 213	38.360	27.149	30.777	1.00 10.79	A
ATOM	1545	Й	ASP A 214	39.433 37.668	26.698 28.038	30.390 30.074	1.00 10.83	A
ATOM	1546	CA	ASP A 214	38.164	28.514	28.775	1.00 5.80 1.00 8.50	A A
ATOM ATOM	1547	CB	ASP A 214	37.033	29.175	27.997	1.00 7.35	A
ATOM	1548 1549	CG OD1	ASP A 214 ASP A 214	37.248	29.146	26.497	1.00 11.12	A
ATOM	1550	OD2		36.479 38.159	29.849 28.428	25.801 26.007	1.00 11.42	A
ATOM	1551	C	ASP A 214	39.314	29.526	28.935	1.00 10.72 1.00 12.08	A A
ATOM ATOM	1552	O.	ASP A 214	39.933	29.931	27.943	1.00 13.08	Ä
ATOM	1553 1554	N CA	PHE A 215 PHE A 215	39.572	29.958	30.170	1.00 9.47	A
ATOM	1555	CB	PHE A 215	40.662 40.121	30.901 32.106	30.459 31.233	1.00 9.63 1.00 12.63	A
MOTA	1556	CG	PHE A 215	39.375	33.081	30.402	1.00 12.63 1.00 9.86	A A
ATOM ATOM	1557 1558	CD1	PHE A 215 PHE A 215	39.957	34.301	30.067	1.00 11.72	A
ATOM	1559	CE1	PHE A 215	38.074 39.250	32.812 35.250	29.986	1.00 11.34	A
ATOM	1560	CE2	PHE A 215	37.357	33.759	29.332 29.245	1.00 11.89 1.00 6.37	A A
ATOM ATOM	1561	cz	PHE A 215	37.949	34.976	28.921	1.00 13.90	Ā
ATOM	1562 1563	C O	PHE A 215 PHE A 215	41.748	30.286	31.356	1.00 13.88	A
ATOM	1564	Ň	ALA A 216	42.837 41.463	30.865 29.131	31.480 31.976	1.00 12.28 1.00 9.02	A
MOTA .	1565	CA	ALA A 216	42.404	28.535	32.936	1.00 9.41	A A
ATOM ATOM	1566 1567	CB	ALA A 216	41.705	27.432	33.753	1.00 9.18	À
ATOM	1568	C	ALA A 216 ALA A 216	43.727 44.679	28.007 27.844	32.406	1.00 13.18	A
ATOM	1569	N	ALA A 217	43.790	27.719	33.178 31.106	1.00 16.82 1.00 12.39	A A
ATOM	1570	CA	ALA A 217	45.031	27.224	30.522	1.00 14.59	Ã
ATOM ATOM	1571 1572	CB C	ALA A 217 ALA A 217	45.094	25.693	30.625	1.00 15.34	A
ATOM	1573	ŏ	ALA A 217	45.136 44.128	27.660 27.958	29.063 28.418	1.00 16.52 1.00 14.71	A
ATOM	1574	N	PRO A 218	46.358	27.690	28.517	1.00 14.71 1.00 18.85	A A
ATOM ATOM	1575	CD	PRO A 218	47.657	27.532	29.194	1.00 19.53	Ä
ATOM	1576 1577	CA CB	PRO A 218 PRO A 218	46.533 48.053	28.101	27.111	1.00 17.17	A
ATOM	1578	ČĞ	PRO A 218	48.553	28.171 28.433	26.952 28.357	1.00 22.03 1.00 24.10	A
ATOM	1579	C	PRO A 218	45.889	27.162	26.076	1.00 17.95	A A
ATOM ATOM	1580	O	PRO A 218	45.490	27.606	24.986	1.00 20.60	Ä
ATOM ATOM	1581 1582	N CA	SER A 219 SER A 219	45.804 45.212	25.872	26.395	1.00 12.39	A
ATOM	1583	CB	SER A 219	46.308	24.883 24.053	25.490 24.816	1.00 11.61 1.00 17.69	A
MOTA	1584	OG	SER A 219	46.870	23.140	25.749	1.00 17.69	A A
ATOM	1585	C	SER A 219	44.341	23.942	26.324	1.00 14.52	Ä
ATOM ATOM	1586 1587	O N	SER A 219 LEU A 220	44.454 43.479	23.896 23.180	27.559	1.00 15.86	A
ATOM	1588	CA	LEU A 220	42.614	22.250	25.664 26.389	1.00 13.85 1.00 13.63	A A
MOTA	1589	CB	LEU A 220	41.705	21.491	25.401	1.00 15.59	A A
ATOM ATOM	1590 1591	CD1	LEU A 220	40.632	22.337	24.707	1.00 16.07	A
7 1 Oh	エンフエ	CDI	LEU A 220	39.908	21.517	23.646	1.00 15.58	A

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ATOM
         1592
                 CD2 LEU A 220
                                         39.635
                                                   22.855
                                                            25.752
                                                                      1.00 16.33
 ATOM
         1593
                 C
                                                   21.251
20.986
                                                             27.245
                      LEU A 220
                                         43.401
                                                                      1.00 15.71
 ATOM
         1594
                 0
                      LEU
                             220
                                         43.034
                                                            28.395
                                                                      1.00 15.65
 MOTA
         1595
                 N
                      ALA
                          A 221
                                         44.481
                                                   20.693
                                                                      1.00 15.60
                                                            26.698
                                                                                          Α
 ATOM
         1596
                 CA
                      ALA
                          A 221
                                         45.283
                                                   19.714
                                                                      1.00 18.03
                                                            27.452
                                                                                          Α
 ATOM
         1597
                CE
                      ALA
                          A 221
                                         46.452
                                                   19.175
                                                            26.604
                                                                      1.00
                                                                            17.58
                                                                                          Α
 ATOM
         1598
                      ALA
                          A 221
                                         45.834
                                                   20.298
                                                            28.738
                                                                      1.00 11.01
                                                                                          Α
         1599
 ATOM
                      ALA A 221
                                         46.085
                                                   19.573
                                                            29.687
                                                                      1.00
                                                                            15.45
 ATOM
         1600
                N
                      GLY
                          A 222
                                         46.038
                                                            28.754
                                                   21.612
                                                                      1.00 15.25
                                                                                          Α
 ATOM
         1601
                 CA
                      GLY
                          A 222
                                         46.561
                                                   22.267
                                                            29.947
                                                                      1.00 11.71
                     GLY A 222
GLY A 222
 ATOM
         1602
                                        45.641
                                                  22.101
                                                            31.144
                                                                      1.00
                                                                            10.72
 ATOM
         1603
                                         46.105
                                                  22.139
                                                            32.280
                                                                      1.00
                                                                            14.13
 ATOM
         1604
                N
                     LEU A 223
LEU A 223
                                         44.340
                                                  21.938
                                                            30.914
                                                                      1.00
                                                                            11.19
                                                                                          Α
 ATOM
         1605
                                        43.406
                                                  21.751
                                                            32.033
                                                                      1.00
                                                                             8.14
 MOTA
         1606
                CB
                     LEU A 223
                                         41.946
                                                  21.728
                                                            31.525
                                                                      1.00
                     LEU A 223
ASN A 224
                                                                             9.90
 MOTA
         1607
                CG
                                         41.481
                                                  23.046
                                                            30.874
                                                                      1.00
                                                                             9.91
 ATOM
         1608
                CD1
                                         40.03-5
                                                  22.918
                                                            30.331
                                                                      1.00
                                                                             9.85
 ATOM
         1609
                CD2
                                         41.570
                                                  24.153
                                                            31.926
                                                                      1.00
                                                                             9.05
 MOTA
         1610
                                                            32.773
                                         43.720
                                                  20.444
                                                                      1.00 11.22
                                                                                          Α
 MOTA
         1611
                                        43.369
                                                  20.297
                                                            33.939
                                                                      1.00
                                                                             7.21
                                                                                          Α
 ATOM
         1612
                N
                                                            32.100
                                        44.389
                                                  19.505
                                                                      1.00
                                                                             9.60
ATOM
                     ASN A 224
ASN A 224
         1613
                CA
                                        44.742
                                                  18.231
                                                            32.727
                                                                      1.00 10.35
ATOM
         1614
                CB
                                        44.651
                                                  17.078
                                                            31.706
                                                                      1.00
                                                                            13.70
                                                                                          Α
         1615
ATOM
                CG
                          A 224
                     ASN
                                        43.214
                                                  16.768
                                                            31.301
                                                                      1.00 15.75
                     ASN A 224
ASN A 224
ASN A 224
ASN A 224
ATOM
         1616
                OD1
                                        42.347
                                                  16.610
                                                            32.146
                                                                      1.00
                                                                            21.72
                                                                                          Α
ATOM
         1617
                ND2
                                        42.968
                                                  16.666
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MOTA
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ATOM
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THR A 227
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THR A 227
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LYS A 228
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ATOM
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13.848 18.738 19.332 18.371 18.607 19.820 21.004 20.025 17.351 16.747 16.934 15.739 14.516
37.228 41.632 42.582 41.640 42.822 42.623 42.384 43.883 43.071 42.118 44.332 44.636
1.00 31.31 1.00 8.66 1.00 13.24 1.00 9.11 1.00 13.64 1.00 17.60 1.01 14.43 1.00 13.57 1.00 14.67 1.00 14.67 1.00 15.04 1.00 17.84 1.
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WO 2005/042572 PCT/FR2004/002797 28/46

ATOM	1744	N	LYS A 245	39.14	8 14.939	40.096	1.00 14.99	
ATOM ATOM	1745 1746	CA CB	LYS A 245 LYS A 245	39.18 37.79	15.079	38.632	1.00 14.88	A A
ATOM ATOM	1747 1748	CG	LYS A 245	37.29	4 13.363	38.289	1.00 13.06 1.00 22.95	A A
ATOM	1749	CD CE	LYS A 245 LYS A 245	38.17 37.59			1.00 27.44 1.00 27.64	A
ATOM ATOM	1750 1751	NZ	LYS A 245	37.29	8 10.599	39.063	1.00 27.64	A A
MOTA	1752	0	LYS A 245 LYS A 245	39.61 39.58			1.00 13.81 1.00 10.66	A
ATOM ATOM	1753 1754	N CA	SER A 246 SER A 246	40.02	2 16.572	36.902	1.00 14.72	A A
MOTA	1755	CE	SER A 246	40.40 41.29			1.00 11.87 1.00 12.31	A A
ATOM ATOM	1756 1757	OG C	SER A 246 SER A 246	40.51 39.09	5 17.215	34.011	1.00 9.67	Ä
ATOM	1758	0	SER A 246	38.07	6 17.815		1.00 10.79 1.00 10.08	A A
ATOM ATOM	1759 1760	N CD	PRO A 247 PRO A 247	39.11 40.24	4 19.825	35.698	1.00 10.98	A
ATOM	1761	CA	PRO A 247	37.90	9 20.545	35.275	1.00 7.03 1.00 9.29	A A
MOTA MOTA	1762 1763	CB	PRO A 247 PRO A 247	38.21 39.73			1.00 7.19	A
ATOM ATOM	1764 1765	C	PRO A 247	37.63	2 20.416	33.765	1.00 9.12 1.00 9.99	A A
ATOM	1766	O N	PRO A 247 ALA A 248	36.86 38.25			1.00 11.54 1.00 9.23	A A
ATOM ATOM	1767 1768	CA CB	ALA A 248 ALA A 248	37.99	2 19.278	31.638	1.00 12.63	A
ATOM	1769	С	ALA A 248	38.83 36.48			1.00 10.35 1.00 15.07	A A
ATOM ATOM	1770 1771	N O	ALA A 248 ALA A 249	35.83 35.93			1.00 11.60	A
ATOM	1772	CA	ALA A 249	34.49	8 19.332	30.037	1.00 12.95 1.00 11.90	A A
ATOM ATOM	1773 1774	CB C	ALA A 249 ALA A 249	34.14 34.03			1.00 12.61 1.00 15.30	A
ATOM ATOM	1775 1776	0 N	ALA A 249	32.95	3 17.617	30.666	1.00 14.63	A A
ATOM	1777	CA	ALA A 250 ALA A 250	34.84 34.42			1.00 14.76 1.00 18.41	A A
ATOM ATOM	1778 1779	CB C	ALA A 250 ALA A 250	35.48 34.11	6 14.623	29.168	1.00 15.53	A
MOTA	1780	0	ALA A 250	33.36	6 14.154		1.00 15.76 1.00 14.59	A A
ATOM ATOM	1781 1782	N CA	ASN A 251 ASN A 251	34.67 34.43			1.00 14.82 1.00 13.85	A
ATOM ATOM	1783 1784	CB CG	ASN A 251 ASN A 251	35.66	5 15.696	34.441	1.00 12.26	A A
MOTA	1785	OD1	ASN A 251	36.88 36.75			1.00 14.85 1.00 14.23	A A
ATOM ATOM	1786 1787	ND2 C	ASN A 251 ASN A 251	38.05 33.16		34.091 34.210	1.00 13.09	A
ATOM	1788	0	ASN A 251	32.87	7 15.686	35.357	1.00 16.10 1.00 14.41	A A
ATOM ATOM	1789 1790	N CA	SER A 252 SER A 252	32.43 31.19			1.00 13.25 1.00 10.81	A
ATOM ATOM	1791 1792	CB OG	SER A 252 SER A 252	31.26	2 . 18.868	34.209	1.00 22.32	A A
ATOM	1793	С	SER A 252	31.26 30.02		32.953 33.101	1.00 23.58 1.00 11.68	A A
ATOM ATOM	1794 1795	N O	SER A 252 SER A 253	28.86 30.36		33.479 31.904	1.00 12.18	A
ATOM	1796	CA	SER A 253	29.36	7 16.138	30.918	1.00 11.74 1.00 10.64	A A
ATOM ATOM	1797 1798	CB OG	SER A 253 SER A 253	30.04 29.05		29.665 28.704	1.00 18.81 1.00 27.87	A A
ATOM ATOM	1799 1800	CO	SER A 253 SER A 253	28.29	4 15.139	31.382	1.00 15.51	A
MOTA	1801	N	ALA A 254	27.11 28.69		31.102 32.081	1.00 11.29 1.00 12.85	A A
ATOM ATOM	1802 1803	CA CB	ALA A 254 ALA A 254	27.70 28.42		32.525	1.00 14.75	A
ATOM	1804	C	ALA A 254	26.65	6 13.667	33.216 33.472	1.00 13.94 1.00 14.13	A A
ATOM ATOM	1805 1806	N O	ALA A 254 ALA A 255	25.45 27.11		33.342 34.441	1.00 14.40 1.00 11.77	A
ATOM ATOM	1807 1808	CA	ALA A 255	26.20	5 15.070	35.401	1.00 13.30	A A
ATOM	1809	CB C	ALA A 255 ALA A 255	27.00 25.22		36.460 34.698	1.00 12.60 1.00 15.34	A A
MOTA MOTA	1810 1811	O N	ALA A 255 ILE A 256	24.06 25.68	8 16.162	35.113	1.00 14.03	A
MOTA	1812	CA	ILE A 256	24.81	2 17.599	33.644 32.920	1.00 13.10 1.00 14.09	A A
ATOM ATOM	1813 1814	CB CG2	ILE A 256 ILE A 256	25.61 24.65		31.900 30.987	1.00 11.60 1.00 13.12	A
MOTA	1815	CG1	ILE A 256	26.57	7 19.378	32.657	1.00 8.87	A A
MOTA MOTA	1816 1817	CD1 C	ILE A 256 ILE A 256	25.87 23.71		33.703 32.195	1.00 6.00 1.00 12.88	A A
ATOM ATOM	1818 1819	О О	ILE A 256 SER A 257	22.56	9 17.268	32.118	1.00 12.14	Α
.11011	1017	1.4	JER A 23/	24.06	9 15.639	31.678	1.00 12.01	A

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1820 CA 1821 CB 1822 OG 1823 C 1824 O 1825 N 1826 CA 1827 CB 1828 CG	SER A 257 SER A 257 SER A 257 SER A 257 SER A 257 VAL A 258 VAL A 258 VAL A 258	23.105 23.773 24.331 21.886 20.885 21.949 20.803 21.230 22.055	13.529 13.802 14.359 13.975 14.417 13.983 13.049	30.960 30.418 29.157 31.750 31.167 33.849 34.996		A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1829 CG 1830 C 1831 O 1832 N 1833 CA 1834 CB 1835 CG 1836 CG 1837 C	VAL A 258 VAL A 258 VAL A 259 VAL A 259 VAL A 259 1 VAL A 259	22.004 20.002 19.056 20.367 19.626 20.345 19.448 21.661 18.257	11.887 13.831 15.133 14.907 16.365 17.503 18.816 20.009 18.870 17.470 17.543	34.443 36.041 34.436 35.193 34.621 34.621 34.655 35.110 32.719	1.00 28.56 1.00 29.85 1.00 20.13 1.00 19.13 1.00 17.82 1.00 9.61 1.00 9.61 1.00 9.60 1.00 10.93	A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1839 N 1840 CD 1841 CA 1842 CB 1843 CG 1844 C 1845 O 1846 N 1847 CA 1848 CB	PRO A 260 PRO A 260 PRO A 260 PRO A 260 PRO A 260 PRO A 260 PRO A 261 LEU A 261 LEU A 261	17.185 17.178 15.823 14.992 15.705 15.326 15.719 14.462 13.190	17.372 17.349 17.321 16.881 17.553 18.629 19.704 18.517 19.697	34.746 36.227 34.204 35.415 36.556 33.592 34.025 32.583 31.899	1.00 12.34 1.00 12.49 1.00 15.54 1.00 12.14 1.00 18.68 1.00 20.90 1.00 13.33 1.00 11.59 1.00 10.89	A A A A A A A A
MCTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA MO	1849 CG 1850 CD1 1851 CD2 1852 C 1853 O 1854 N 1855 CA 1856 CA 1857 CB	LEU A 261 LEU A 261 LEU A 261 LEU A 261 LEU A 261 PRO A 262 PRO A 262 PRO A 262 PRO A 262	14.033 13.132 14.860 12.868 12.313 12.598 13.154 11.576 11.753	19.272 18.724 18.115 19.854 20.354 19.715 21.646 22.620 22.260 23.752	30.612 29.470 28.388 28.927 32.782 33.667 32.570 31.613 33.421 33.137	1.00 14.36 1.00 23.33 1.00 17.91 1.00 21.86 1.00 14.14 1.00 13.00 1.00 16.56 1.00 18.10 1.00 15.86 1.00 16.37	A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1858 CG 1859 C 1860 N 1862 CA 1863 CB 1864 C 1865 N 1866 N	PRO A 262 PRO A 262 PRO A 263 ALA A 263 ALA A 263 ALA A 263 ALA A 263 ALA A 264 ALA A 264	12.147 10.239 10.134 7.943 6.994 7.343 7.480 6.664 6.050	23.764 21.709 21.357 21.605 21.085 20.952 22.011 23.235 21.426 22.206	31.698 32.911 31.743 33.776 33.344 34.539 32.292 32.377 31.309 30.239	1.00 22.55 1.00 14.68 1.00 14.32 1.00 15.60 1.00 20.02 1.00 16.04 1.00 14.70 1.00 15.42 1.00 12.74	A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1868 CB 1869 C 1870 O 1871 N 1872 CA 1873 CB 1874 C 1875 O 1376 N 1877 CA	ALA A 264 ALA A 264 ALA A 265 ALA A 265 ALA A 265 ALA A 265 ALA A 265 ALA A 265 ALA A 265 ASN A 266 ASN A 266	5.248 5.149 5.247 4.284 3.370 2.467 4.057 3.437 5.320	21.287 23.329 24.461 23.037 24.071 23.478 25.333 26.398 25.212	29.308 30.747 30.264 31.721 32.242 33.363 32.772 32.838 33.175	1.00 19.88 1.00 15.82 1.00 17.34 1.00 13.78 1.00 15.17 1.00 15.42 1.00 15.06 1.00 13.78	A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1878 CB 1879 CG 1880 OD1 1881 ND2 1882 C 1883 O 1884 N 1885 CA 1886 CB	ASN A 266 ASN A 266 ASN A 266 ASN A 266 ASN A 266 ASN A 267 ARG A 267 ARG A 267	6.057 6.987 6.2755 6.969 7.662 6.980 7.933	26.343 25.895 25.239 25.676 24.200 27.039 27.965 26.600 27.162 26.254	33.733 34.873 36.028 36.425 36.592 32.730 33.100 31.483 30.534 29.306	1.00 12.11 1.00 13.94 1.00 23.25 1.00 21.92 1.00 19.37 1.00 12.06 1.00 13.88 1.00 10.11 1.00 12.44 1.00 10.57	A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1887 CG 1888 CD 1889 NE 1890 CZ 1891 NH1 1892 NH2 1893 C 1894 O 1895 N	ARG A 267 ARG A 267	8.746 8.892 9.275 9.533 9.477 9.782 7.785 8.658 6.711	24.945 23.924 22.637 21.530 21.543 20.387 28.629 29.207 29.240	29.675 28.540 29.124 28.439 27.118 29.084 30.168 29.505 30.663	1.00 12.04 1.00 9.95 1.00 14.76 1.00 14.94 1.00 16.59 1.00 13.15 1.00 13.15 1.00 13.15	A A A A A A A

ATOM ATOM	1896 1897	CA C	GLY A 2		6.491 7.212	30.653	30.439		13.33	A
ATOM ATOM	1898 1899	Ö N	GLY A 2	268	7.219	31.457 32.679	31.507	1.00	13.92	A A
ATOM	1900	CA	ASP A	269 269	7.804 8.554	30.767 31.398	32.486 33.594	1.00 1.00	11.00 14.58	A A
ATOM ATOM	1901 1902	CB CG		269 269	8.233 8.943	30.665 31.263	34.914 36.117	1.00	13.17 16.24	A A
ATOM ATOM	1903 1904	OD1 OD2		269 269	9.767	32.179	35.944	1.00	17.40	A
MOTA	1905	С	ASP A 2	269	8.667 10.064	30.804 31.290	37.244 33.303	1.00	19.44 10.72	A A
ATOM ATOM	1906 1907	N O		269 270	10.616 10.742	30.196 32.417	33.348 33.010	1.00	11.39 11.52	A A
ATOM ATOM	1908 1909	CD CA	PRO A 2		10.217	33.796	32.924	1.00	11.48	A
ATOM	1910	CB	PRO A 2	270	12.184 12.523	32.394 33.867	32.709 32.491	1.00	10.44	A A
ATOM ATOM	1911 1912	CG C	PRO A 2 PRO A 2	270 270	11.225 13.042	34.465 31.786	32.026 33.793	1.00	13.30 12.77	A
ATOM ATOM	1913	0	PRO A 2	270	14.097	31.243	33.521	1.00	10.58	A A
MOTA	1914 1915	N CA	ASN A 2 ASN A 2	271 271	12.578 13.337	31.870 31.332	35.032 36.145	1.00	11.41	A A
ATOM ATOM	1916 1917	CB CG		271 271	12.660 13.533	31.729 31.434	37.463 38.683	1.00	14.43	A
ATOM ATOM	1918	OD1	ASN A 2	271	14.734	31.726	38.696	1.00	22.14 16.89	A A
ATOM	1919 1920	ND2 C	ASN A 2 ASN A 2	271 271	12.934 13.545	30.854 29.816	39.703 36.090	1.00	16.43 16.21	A A
ATOM ATOM	1921 1922	N O		271 272 ·	14.595 12.574	29.319 29.065	36.510	1.00	15.74	A
ATOM	1923	CA	VAL A 2	272	12.749	27.613	35.575 35.547	1.00	10.21 11.32	A A
ATOM ATOM	1924 1925	CB CG1		272 272	11.378 10.450	26.849 27.297	35.440 36.548	1.00	13.38 14.31	A A
ATOM ATOM	1926 1927	CG2 C		272 2 7 2	10.759 13.651	27.074 27.086	34.078 34.434	1.00	11.03	A
MCTA MOTA	1928	0	VAL A 2	272	14.028	25.907	34.459	1.00	12.71 10.89	. A A
MOTA	1929 1930	N CA		273	13.991 14.862	27.930 27.465	33.461 32.366	1.00	7.57 7.83	A A
ATOM ATOM	1931 1932	CB CG		273 273	14.741 13.496	28.403 28.126	31.150 30.364	1.00	7.08	A
ATOM ATOM	1933 1934	CD2 CE2	TRP A 2	273	13.359	27.161	29.325	1.00	9.80	A A
ATOM:	1935	CE3	TRP A 2	273 273	12.020 14.241	27.228 26.240	28.860 28.732	1.00	9.21	A A
ATOM ATOM	1936 1937	CD1 NE1		273 273	12.271 11.375	28.728 28.192	30.500 29.590	1.00	7.74 12.31	A A
ATOM ATOM	1938 1939	CZ2 CZ3	TRP A 2	273	11.545	26.412	27.838	1.00	10.97	A
MOTA	1940	CH2	TRP A 2	273 273	13.764 12.427	25.428 25.522	27.700 27.267	1.00 1.00	10.91 14.13	A A
ATOM ATOM	1941 1942	0		273 273	16.338 17.119	27.311 26.663	32.755 32.042	1.00	9.26 9.73	A A
ATOM ATOM	1943 1944	N CA	THR A 2	274 274	16.736 18.123	27.893 27.769	33.880	1.00	8.74	A
MOTA	1945	CB	THR A 2	274	18.759	29.147	34.281 34.542	1.00 1.00	11.71 12.87	A A
ATOM ATOM	1946 1947	OG1 CG2		274 274	18.701 20.240	29.940 28.973	33.334 34.959	1.00	16.61 9.96	A A
ATOM ATOM	1948 1949	C	THR A 2	274	18.271 18.020	26.918 27.378	35.535 36.645	1.00	10.53	A
ATOM ATOM	1950 1951	N	PRO A 2	275	18.673	25.657	35.373.	1.00	11.80	A A
ATOM	1952	CD CA	PRO A 2 PRO A 2	275	18.885 18.841	24.916 24.782	34.119 36.543		13.30	A A
ATOM ATOM	1953 1954	CB CG	PRO A 2 PRO A 2	275 275	19.180 18.600	23.424 23.506	35.921 34.528		15.21 15.39	A A
ATOM ATOM	1955 1956	C		275	20.004	25.253	37.445	1.00	12.51	А
MOTA	1957	N	VAL A 2	276	21.007 19.869	25.723 25.148	36.950 38.764	1.00	12.15 9.91	A A
ATOM ATOM	1958 1959	CA CB	VAL A 2 VAL A 2		20.999 20.738	25.502 26.762	39.615 40.478		10.08 15.02	A A
ATOM ATOM	1960 1961	CG1 CG2	VAL A 2 VAL A 2		20.534 19.551	27.990 26.543	39.568	1.00	16.57	Α
MOTA	1962	С	VAL A 2	276	21.236	24.293	41.388 40.500		17.45 12.75	A A
ATOM ATOM	1963 1964	O N	VAL A 2 PHE A 2		20.315 22.472	23.498 24.149	40.743	1.00	7.21 13.38	A A
ATOM ATOM	1965 1966	CA CB	PHE A 2 PHE A 2	277	22.848 24.231	23.017 22.491	41.798	1.00	12.43	A.
MOTA	1967	CG	PHE A 2	277	24.229	21.828	40.017	1.00	8.49 8.19	A A
ATOM ATOM	1968 1969	CD1 CD2	PHE A 2 PHE A 2		24.404 23.999	22.568 20.461	38.858 39.909	1.00	9.76 8.15	A A
ATOM ATOM	1970 1971	CE1	PHE A 2 PHE A 2		24.350 23.938	21.934 19.825	37.585 38.654	1.00	13.41	A A
	-								02	T.

ATOM	1972	CZ	PHE A 277	24.114	20.555	37.499	1.00 8.74	A
MOTA MOTA	1973 1974	C	PHE A 277 PHE A 277	22.848 22.892	23.377 24.553	43.272 43.534	1.00 12.19	A A
MOTA	1975	N	GLY A 278	22.781	22.356	44.116	1.00 12.01	A
MOTA	1976	CA	GLY A 278	22.767	22.601	45.547	1.00 10.29	A
MOTA	1977	C	GLY A 278	23.113	21.342	46.309	1.00 9.39	A
MOTA	1979	N	GLY A 278	23.379	20.302	45.704	1.00 12.45	A
MOTA	1979	O	ALA A 279	23.087	21.414	47.637	1.00 11.15	A
MOTA	1980	CA	ALA A 279	23.436	20.246	48.450	1.00 14.32	A
MOTA	1981	CB	ALA A 279	23.362	20.604	49.930	1.00 16.91	A
MOTA	1982	C	ALA A 279	22.542	19.029	48.157		A
MOTA	1983	N	ALA A 279	23.038	17.896	48.017	1.00 18.69	A
MOTA	1984	O	VAL A 280	21.238	19.262	48.040	1.00 14.35	A
MOTA	1985	CA	VAL A 280	20.302	18.176	47.796	1.00 19.81	A
ATOM	1986	CB	VAL A 280	19.500	17.847	49.076	1.00 23.28	A
ATOM	1987	CG1	VAL A 280	20.457	17.579	50.225	1.00 23.97	A
ATOM	1988	CG2	VAL A 280	18.603	18.992	49.436	1.00 21.87	A
ATOM	1989		VAL A 280	19.311	18.483	46.686	1.00 20.63	A
MOTA	1990	0	VAL A 280	19.004	19.635	45.407	1.00 21.63	A
ATOM	1991	N	THR A 281	18.812	17.436	46.055	1.00 20.03	A
ATOM	1992	CA	THR A 281	17.838	17.599	44.982	1.00 19.32	A
ATOM	1993	CB	THR A 281	17.732	16.327	44.136	1.00 20.70	. A
ATOM	1994	OG1	THR A 281	18.989	16.096	43.493	1.00 24.83	A
MOT.A	1995	CG2	THR A 281	16.637	16.473	43.062	1.00 20.23	A
MOTA	1996	C	THR A 281	16.500	17.882	45.618	1.00 24.45	A
MOTA	1997	O	THR A 281	16.073	17.159	46.520	1.00 22.56	A
ATOM	1998	N	GLY A 282	15.854	18.949	45.164	1.00 22.37	A
ATOM	1999	CA	GLY A 282	14.564	19.316	45.706	1.00 26.62	A
MOTA	2000	С	GLY A 282	14.183	20.735	45.343	1.00 31.11	A
MOTA	2001	N	GLY A 282	15.048	21.603	45.206	1.00 27.54	A
MOTA	2002	O	GLY A 283	12.883	20.971	45.131	1.00 32.42	A
ATOM	2003	CA	GLY A 283	12.401	22.301	44.855	1.00 30.56	A
ATOM		C	GLY A 283	13.051	22.950	43.654	1.00 30.47	A
ATOM MOTA	2005	0	GLY A 283 GLY A 284	13.307 13.299	24.154 22.171	43.666	1.00 33.57 1.00 26.82	A A
MOTA	2006 2007	N CA	GLY A 284	13.925	22.723	41.415	1.00 26.01	A
ATOM	2008	0	GLY A 284	15.450	22.687	41.439	1.00 26.04	A
ATOM	2009		GLY A 284	16.115	22.822	40.406	1.00 25.82	A
ATOM	2010	N	VAL A 285	16.022	22.521	42.622	1.00 19.45	A
ATOM	2011	CA	VAL A 285	17.467	22.461	42.722	1.00 19.85	A
MOTA	2012	CB	VAL A 285	17.903 19.389	22.894 22.673	44.135	1.00 19.90 1.00 16.38	A A
ATOM ATOM	2013 2014	CG1 CG2	VAL A 285	17.521	24.376	44.360	1.00 20.29	A
ATOM	2015	CO	VAL A 285	17.958	21.037	42.428	1.00 18.72	A
ATOM	2016		VAL A 285	17.298	20.055	42.754	1.00 18.51	A
ATOM	2017	N	VAL A 286	19.103	20.932	41.755	1.00 14.01	A
ATOM	2018	CA	VAL A 286	19.706	19.645	41.423	1.00 16.59	A
MOTA	2019	CB	VAL A 286	20.200	19.625	39.964	1.00 14.25	A
ATOM	2020	CG1		20.729	18.254	39.623	1.00 19.16	A
ATOM	2021	CG2		19.068	19.997	39.036	1.00 20.67	A
ATOM	2022	O.	VAL A 286	20.917	19.416	42.325	1.00 17.27	A
ATOM	2023		VAL A 286	21.757	20.302	42.484	1.00 13.49	A
MOTA	2024	N	ALA A 287 ALA A 287	21.041 22.188	18.229 18.000	42.896 43.778	1.00 15.01 1.00 17.78	A A
ATOM ATOM	2025 2026	CA CB	ALA A 287	22.039	16.649	44.527	1.00 16.62	A
ATOM	2027	0	ALA A 287	23.483	18.011	42.999	1.00 12.88	A
ATOM	2028		ALA A 287	23.520	17.533	41.854	1.00 10.29	A
ATOM	2029	N	TYR A 288	24.538	18.576	43.603	1.00 11.08	A
MOTA	2030	CA	TYR A 288	25.867	18.554	42.979	1.00 8.88	A
ATOM	2031	CB	TYR A 288	26.877	19.297	43.862	1.00 12.41	A
ATOM	2032	CG	TYR A 288	26.891	20.803	43.649	1.00 9.59	A
ATOM	2033	CD1	TYR A 288	26.329	21.677	44.589	1.00 8.82	A
MOTA MOTA	2034 2035	CE1		26.320 27.463	23.086 21.356	44.382	1.00 10.11 1.00 10.87	A A
MOTA	2036	CE2		27.464 26.883	22.744 23.601	42.275	1.00 6.63 1.00 7.60	A A
ATOM ATOM	2037 2038	OH OH	TYR A 288	26.842	24.960	42.960	1.00 7.46	A
MOTA	2039	CO	TYR A 288	26.263	17.061	42.851	1.00 12.67	A
MOTA	2040		TYR A 288	25.989	16.265	43.750	1.00 10.55	A
MOTA	2041	N	PRO A 289	26.925	16.672	41.746	1.00 12.61	A
MOTA	2042	CD	PRO A 289	27.338	17.560	40.625	1.00 13.50	A
ATOM	2043	CA	PRO A 289	27.346	15.280	41.495	1.00 12.99	A
MOTA	2044	CB	PRO A 289	27.863	15.328	40.051	1.00 15.51	A
ATOM	2045	CG		28.424	16.734	39.920	1.00 10.53	A
ATOM	2046	C	PRO A 289	28.366	14.644	42.439	1.00 17.46	A
ATOM	2047		PRO A 289	29.342	15.282	42.835	1.00 15.29	A
VION	204/	9	ING A 207	23.372	22.202		1-127	••

FIGURE 5 (suite)

ATOM	2048	N	ASP A 290	28.149	13.372	42.782	1.00 16.57	A
MOTA	2049	CA	ASP A 290	29.092		43.652		
					12.691		1.00 20.97	A
MOTA	2050	CB	ASP A 290	28.360	11.751	44.628	1.00 25.52	A
MOTA	2051	CG	ASP A 290	27.489	10.723	43.929	1.00 34.64	A
MOTA	2052	ODl	ASP A 290	26.599	10.146	44.604	1.00 38.07	A
ATOM	2053	OD2	ASP A 290	27.693	10.478	42.716	1.00 39.24	A
MOTA	2054	C	ASP A 290	30.154	11.952	42.824	1.00 21.23	A
ATOM	2055	õ				43.362		
			ASP A 290	30.990	11.231		1.00 21.11	A
ATOM	2056	N	SER A 291	30.136	12.152	41.509	1.00 14.24	Α
ATOM	2057	CA	SER A 291	31.143	11.538	40.645	1.00 16.28	A
MOTA	2058	CB	SER A 291	30.592	10.290	39.925	1.00 16.14	А
ATOM	2059	OG	SER A 291	29.549	10.625	39.031	1.00 22.17	A
ATOM	2060	C	SER A 291	31.555	12.609	39.643	1.00 14.75	A
ATOM	2061	ŏ	SER A 291	30.842	13.605	39.493	1.00 13.50	
ATOM	2062	й						A
			GLY A 292	32.692	12.419	38.971	1.00 13.79	A
MCTA	2063	CA	GLY A 292	33.181	13.423	38.019	1.00 14.60	A
ATOM	2064	С	GLY A 292	33.713	14.688	38.707	1.00 11.05	Α
ATOM	2065	0	GLY A 292	33.964	14.669	39.909	1.00 14.10	Α
MOTA	2066	N	TYR A 293	33.904	15.779	37.955	1.00 10.56	A
ATOM:	2067	CA	TYR A 293	34.380	17.049	38.529	1.00 9.23	A
ATOM	2068	CB	TYR A 293	34.838	18.014	37.443		
							1.00 10.30	A
ATOM	2069	CG	TYR A 293	35.535	19.229	38.C12	1.00 11.13	A
ATOM	2070	CD1	TYR A 293	36.829	19.138	38.526	1.00 7.85	A
ATOM	2071	CE1	TYR A 293	37.482	20.269	39.049	1.00 8.64	A
ATOM	2072	CD2	TYR A 293	34.900	20.470	38.038	1.00 11.82	A
MOTA	2073	CE2	TYR A 293	35.547	21.601	38.554	1.00 11.43	А
ATOM	2074	CZ	TYR A 293	36.839	21.488	39.052	1.00 B.40	A
ATOM	2075	ŎН	TYR A 293	37.488	22.625	39.496	1.00 8.49	Ā
ATOM	2076	Ċ	TYR A 293	33.183	17.645			
						39.252	1.00 9.71	Ä
ATOM	2077	0	TYR A 293	32.142	17.834	38.657	1.00 12.02	A
ATOM	2078	N	PRO A 294	33.347	18.021	40.531	1.00 12.25	Ά
ATOM	2079	CD	PRO A 294	34.575	17.923	41.350	1.00 12.44	P.
MOTA	2080	CA	PRO A 294	32.229	18.559	41.302	1.00 14.24	A
ATOM	2081	CB	PRO A 294	32.644	18.263	42.748	1.00 12.15	A
ATOM	2082	CG	PRO A 294	34.132	18.499	42.712	1.00 15.49	Ā
ATOM	2083	Č	PRO A 294	31.682	19.963	41.133		
							1.00 13.85	.A.
ATOM	2084	0	PRO A 294	30.511	20.171	41.429	1.00 11.37	A
MOTA	2085	Ŋ	ILE A 295	32.476	20.907	40.628	1.00 10.88	A
ATOM	2086	CA	ILE A 295	31.990	22.280	40.510	1.00 9.12	A
ATOM	2087	CB	ILE A 295	33.062	23.301	40.934	1.00 10.07	A
ATOM	2088	CG2	ILE A 295	32.375	24.666	41.232	1.00 10.52	A
ATOM	2089	CG1	ILE A 295	33.733	22.853	42.236	1.00 12.06	A
ATOM	2090	CD1	ILE A 295	34.841	23.801	42.703	1.00 12.46	Ä
ATOM	2091	Č	ILE A 295	31.564	22.574	39.087	1.00 12.87	
			ILE A 295					Ā
MOTA	2092	0		32.397	22.660	38.182	1.00 10.57	Ą
ATOM	2093	N	LEU A 296	30.257	22.743	38.902	1.00 10.82	A
ATOM	2094	CA	LEU A 296	29.703	22.951	37.570	1.00 8.61	A
ATOM	2095	CB	LEU A 296	29.370	21.578	36.949	1.00 9.63	A
ATOM	2096	CG	LEU A 296	28.032	20.884	37.276	1.00 7.75	A
ATOM	2097	CD1	LEU A 296	27.971	19.517	36.572	1.00 11.60	A
ATOM	2098	CD2	LEU A 296	27.852	20.690	38.784	1.00 10.20	A
MOTA	2099	C	LEU A 296	28.461	23.828	37.612	1.00 7.00	A
ATOM	2100	ŏ.	LEU A 296	27.945	24.137	38.690	1.00 11.47	Â
ATOM	2101	N	GLY A 297	27.988	24.236	36.436		
							1.00 8.98	A
ATOM	2102	CA	GLY A 297	26.812	25.093	36.353	1.00 B.75	A
ATOM	2103	C	GLY A 297	26.503	25.452	34.906	1.00 14.03	A
ATOM	2104	0	GLY A 297	27.128	24.917	33.979	1.00 9.23	A
ATOM	2105	N	PHE A 298	25.544	26.353	34.700	1.00 7.40	A
MOTA	2106	CA	PHE A 298	25.177	26.758	33.350	1.00 7.84	A
ATOM	2107	CB	PHE A 298	23.666	26.550	33.105	1.00 6.30	A
ATOM	2108	ĊĠ	PHE A 298	23.249	25.102	32.984	1.00 10.10	
								A
ATOM	2109	CD1		22.775	24.398	34.094	1.00 9.62	A
ATOM	2110	CD2	PHE A 298	23.356	24.444	31.763	1.00 8.37	A
MOTA	2111	CEI	PHE A 298	22.414	23.038	33.986	1.00 13.84	A
MOTA	2112	CE2	PHE A 298	23.005	23.087	31.630	1.00 7.19	A
ATOM	2113	CZ	PHE A 298	22.533	22.379	32.747	1.00 12.00	A
ATOM	2114	č	PHE A 298	25.469	28.235	33.145	1.00 10.22	Ä
ATOM	2115	ŏ	PHE A 298	25.431	29.007	34.114	1.00 9.27	Ā
ATOM	2116	й	THR A 299	25.811	28.615	31.910		
	2117						1.00 7.04	A
MOTA		CA	THR A 299	25.961	30.029	31.594	1.00 8.99	Ā
MOTA	2118	CB	THR A 299	27.319	30.414	30.975	1.00 12.65	A
ATOM	2119	OG1	THR A 299	27.293	31.818	30.682	1.00 10.67	A
ATOM	2120	CG2	THR A 299	27.616	29.617	29.740	1.00 12.18	A
ATOM	2121	C	THR A 299	24.798	30.220	30.616	1.00 8.12	A
ATOM	2122	Ö	THR A 299	24.482	29.325	29.810	1.00 9.48	A
MOTA	2123	Ň	ASP A 300	24.173	31.392	30.677	1.00 8.49	Ä
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FIGURE 5 (suite)

MOTA	2124	CA	ASP A 30		22.930	31.636	29.950	1.00 10.66	Α
ATOM	2125	CB	ASP A 30	0	21.849	31.816	31.023	1.00 8.23	A
ATOM	2126	CG	ASP A 30		22.055	30.877	32.193	1.00 14.11	Ά
MOTA	2127	OD1	ASP A 30		22.141	29.660	31.928	1.00 8.23	Α
MOTA	2128	OD2	ASP A 30		22.149	31.341	33.373	1.00 15.65	A
MOTA	2129	C	ASP A 30		22.828	32.790	28.975	1.00 10.65	A
MOTA	2130	0	ASP A 30		23.690	33.669	28.931	1.00 8.49	А
ATOM	2131	N	LEU A 30		21.740	32.765	28.202	1.00 8.77	A
ATOM ATOM	2132 2133	CA CB	LEU A 30		21.407	33.819	27.246	1.00 10.49	Α
ATOM	2133	CG	LEU A 30 LEU A 30		21.121 22.189	33.226	25.850	1.00 10.57	A
MOTA	2135	CD1	LEU A 30		21.699	32.371 31.951	25.157	1.00 17.61	A
MOTA	2136	CD2	LEU A 30		23.456	33.151	23.775 25.057	1.00 16.46 1.00 12.96	A
MOTA	2137	C	LEU A 30		20.128	34.533	27.689	1.00 12.96	A A
MOTA	2138	0	LEU A 30		19.179	33.889	28.127	1.00 7.63	Ä
MOTA	2139	N	ILE A 30		20.101	35.855	27.564	1.00 8.91	A
MOTA	2140	CA	ILE A 30		18.897	36.614	27.879	1.00 7.82	A
MOTA MOTA	2141	CB	ILE A 30		19.146	37.648	29.000	1.00 10.36	Ά
MOTA	2142 2143	CG2 CG1	ILE A 30 ILE A 30		17.848	38.429	29.261	1.00 12.51	A
ATOM	2143	CDI	ILE A 30 ILE A 30		19.588 20.089	36.918	30.287	1.00 8.81	Α
ATOM	2145	C	ILE A 30		18.517	37.867 37.368	31.411 26.602	1.00 7.82	A
MOTA	2146	Ō	ILE A 30		19.320	38.158	26.096	1.00 9.48 1.00 8.44	A A
MOTA	2147	N	PHE A 30	3	17.311	37.120	26.081	1.00 8.80	A
MOTA	2148	CA	PHE A 30	3	16.843	37.786	24.854	1.00 8.37	A
MOTA	2149	CB	PHE A 30		16.751	36.821	23.651	1.00 7.07	A
ATOM	2150	CG	PHE A 30		18.054	36.583	22.944	1.00 8.30	Α
ATOM ATOM	2151 2152	CD1 CD2	PHE A 30		19.027	35.770	23.500	1.00 8.48	A
ATOM	2153	CEI	PHE A 30 PHE A 30		18.316 20.265	37.205	21.725	1.00 7.08	A
ATOM	2154	CE2	PHE A 30		19.559	35.582 37.023	22.851	1.00 7.30	A
MOTA	2155	CZ	PHE A 30		20.528	36.210	21.065 21.637	1.00 9.28 1.00 11.64	A
ATOM	2156	С	PHE A 30		15.437	38.305	25.032	1.00 9.03	A A
ATOM	2157	0	PHE A 30		14.797	38.052	26.031	1.00 9.30	Ā
ATOM	2158	N	SER A 30		14.947	39.002	24.014	1.00 7.56	A
ATOM	2159	CA	SER A 30		13.566	39.465	24.044	1.00 9.72	A
ATOM ATOM	2160 2161	CB	SER A 30		13.470	40.870	23.444	1.00 11.08	A
ATOM	2162	OG C	SER A 30 SER A 30		12.117	41.291	23.498	1.00 10.08	Α
ATOM	2163	ŏ	SER A 30		12.707 13.198	38.530 38.018	23.170	1.00 6.80	A
ATOM	2164	N	GLU A 30		11.451	38.293	22.162 23.534	1.00 10.90 1.00 8.14	A
MOTA	2165	CA	GLU A 30		10.605	37.482	22.655	1.00 8.14	A A
MOTA	2166	CB	GLU A 30		9.268	37.125	23.316	1.00 10.66	Ä
ATOM	2167	CG	GLU A 30		8.447	36.161	22.439	1.00 11.71	A
ATOM	2168	CD	GLU A 30		7.073	35.820	22.985	1.00 12.77	A
ATOM ATOM	2169 2170	OE1 OE2	GLU A 30		6.767	36.154	24.147	1.00 14.12	A
ATOM	2171	C	GLU A 30		6.288 10.305	35.192 38.329	22.228	1.00 16.70	A
ATOM	2172	ō	GLU A 30		10.154	37.800	21.399 20.283	1.00 15.34 1.00 10.74	A
ATOM	2173	N	CYS A 30		10.239	39.649	21.574	1.00 10.74	A A
ATOM	2174	CA	CYS A 30	5	9.889	40.534	20.450	1.00 12.96	Ä
ATOM	2175	C	CYS A 30		10.859	41.666	20.140	1.00 14.14	A
ATOM ATOM	2176	O.	CYS A 30		11.434	42.270	21.046	1.00 11.98	A
ATOM	2177 2178	CB SG	CYS A 30		8.531	41.185	20.726	1.00 11.40	Α
ATOM	2179	И	TYR A 30		7.188 11.017	40.111 41.956	21.313	1.00 15.63	A
ATOM	2180.	CA	TYR A 30		11.872	43.060	18.854 18.397	1.00 12.82 1.00 10.85	A
ATOM	2181	CB	TYR A 30		13.143	42.533	17.712	1.00 8.88	A A
ATOM	2182	CG	TYR A 30'	7	14.066	41.850	18.703	1.00 13.96	A
ATOM	2183	CD1	TYR A 30		13.902	40.499	19.020	1.00 13.44	A
ATOM	2184	CE1	TYR A 30		14.683	39.882	20.020	1.00 13.43	A
ATOM ATOM	2185	CD2 CE2	TYR A 30		15.035	42.579	19.401	1.00 11.32	Α
ATOM	2186 2187	CZ	TYR A 30'		15.821	41.972	20.410	1.00 11.99	A
ATOM	2188	ОН	TYR A 30		15.637 16.379	40.625 40.019	20.712 21.724	1.00 12.10 1.00 12.32	A
ATOM	2189	C	TYR A 30		11.056	43.908	17.424	1.00 12.32	A
ATOM	2190	ō	TYR A 30'	,	10.318	43.370	16.588	1.00 13.04	A A
MOTA	2191	N	ALA A 308	}	11.161	45.229	17.546	1.00 13.47	Ä
ATOM	2192	CA	ALA A 308	3	10.420	46.123	16.660	1.00 19.16	Ä
ATOM	2193	СВ	ALA A 308		10.623	47.583	17.116	1.00 19.39	A
ATOM	2194	C	ALA A 308		10.827	45.960	15.176	1.00 16.58	Α
MOTA MOTA	2195 2196	O N	ALA A 308 ASN A 309		9.990	46.011	14.290	1.00 15.94	A
ATOM	2197	CA	ASN A 309		12.109 12.621	45.752 45.602	14.919 13.565	1.00 16.56	A
ATOM	2198	CB	ASN A 309		14.084	46.052	13.558	1.00 15.71 1.00 11.74	Α
ATOM	2199	ĊĞ	ASN A 309		14.704	46.002	12.183	1.00 20.62	A A
							· – – –		^

ATOM ATOM ATOM	2276 2277 2278	CD2 CE1 CE2	PHE A 3 PHE A 3	19 19	21.593 24.102 22.333	33.356 32.203 32.919	19.087 18.738 20.212	1.00 1.00 1.00	12.72	A A A
MOTA MOTA MOTA	2279 2280 2281 2282	CZ C O N	PHE A 3	19 19 19 20	23.589 20.449 21.203	32.338 31.222 30.282	20.027 16.587 16.868	1.00 1.00 1.00	10.27 12.47	A A A
ATOM ATOM ATOM	2283 2284 2285	CA CB CG	PHE A 3 PHE A 3		19.188 18.649 17.247 17.246	31.275 30.213 30.581 31.285	17.013 17.860 18.363 19.698	1.00 1.00 1.00	10.79 9.11	A A A
ATOM ATOM ATOM	2286 2287 2288	CD1 CD2 CE1	PHE A 3	20 20	16.762 17.723 16.750	30.642 32.583 31.282	20.833 19.822 22.082	1.00	9.52	A A A
ATOM ATOM ATOM ATOM	2289 2290 2291 2292	CE2 CZ C	PHE A 3 PHE A 3 PHE A 3 PHE A 3	20 20	17.712 17.220 18.598	33.244 32.579 28.912	21.075 22.209 17.089	1.00 1.00 1.00	9.45 8.89 7.76	A A A
ATOM ATOM ATOM	2293 2294 2295	N CA CB	THR A 3: THR A 3: THR A 3:	21 21	18.856 18.274 18.199 17.687	27.838 29.013 27.829 28.224	17.634 15.801 14.950 13.551	1.00 1.00 1.00	9.90 8.04 6.79 7.01	A A A
ATOM ATOM ATOM	2296 2297 2298	OG1 CG2 C	THR A 3:	21 21	16.334 17.731 19.535	28.695 27.032 27.128	13.691 12.573 14.872	1.00		A A A
ATOM ATOM ATOM ATOM	2299 2300 2301 2302	O N CA CB	THR A 3: LYS A 3: LYS A 3: LYS A 3:	22 22	19.594 20.617 21.950 22.970	25.896 27.904 27.319	14.823 14.873 14.849	1.00 1.00 1.00	10.46 8.41 8.00	A A A
MOTA MOTA MOTA	2303 2304 2305	CG CD CE	LYS A 3: LYS A 3: LYS A 3:	22 22	24.410 25.396 26.665	28.329 27.805 28.712 27.922	14.299 14.359 13.615 13.317	1.00 1.00 .1.00	8.08	A A A
ATOM ATOM ATOM ATOM	2306 2307 2308	NZ C O	LYS A 3: LYS A 3: LYS A 3:	22 22	27.577 22.415 22.864	28.702 26.857 25.711	12.437 16.242 16.425	1.00 1.00 1.00	18.79 9.52 9.02	A A A
ATOM ATOM ATOM	2309 2310 2311 2312	N CA CB CG	HIS A 32 HIS A 32 HIS A 32	23	22.289 22.793 22.710 23.655	27.735 27.420 28.677 28.657	17.231 18.569 19.469 20.637	1.00 1.00 1.00	10.06 9.00 7.78	A A A
ATOM ATOM ATOM	2313 2314 2315	ND1 CE1	HIS A 32 HIS A 32 HIS A 32	23 23 23	23.426 25.028 25.602	28.762 28.560 28.615	21.970 20.494 21.683	1.00 1.00 1.00	9.56 9.53 7.88 9.47	A A A
ATOM ATOM ATOM ATOM	2316 2317 2318 2319	NE2 C O N	HIS A 32 HIS A 32 HIS A 32 TYR A 32	23 23	24.653 22.082 22.687 20.808	28.736 26.230 25.507	22.598 19.222 20.019	1.00 1.00 1.00	12.97 9.52 8.65	A A A
ATOM ATOM ATOM	2320 2321 2322	CA CB CG	TYR A 32 TYR A 32 TYR A 32	24 24 24	20.024 18.767 19.137	26.034 24.911 25.434 26.376	18.877 19.427 20.149 21.277	1.00 1.00 1.00	9.61 10.38 6.95 7.33	A A A
ATOM ATOM ATOM ATOM	2323 2324 2325 2326	CD1 CE1 CD2 CE2	TYR A 32 TYR A 32 TYR A 32 TYR A 32	4	19.195 19.656 19.533	27.752 28.618 25.882	21.072 22.097 22.513	1.00 1.00 1.00	5.99 8.99 7.61	A A A
ATOM ATOM ATOM	2327 2328 2329	CZ OH C	TYR A 32 TYR A 32 TYR A 32	4	19.994 20.052 20.547 19.627	26.731 28.094 28.926 23.893	23.525 23.303 24.294 18.338	1.00 1.00 1.00	5.98 7.54 7.56 7.02	A A A
ATOM ATOM ATOM ATOM	2330 2331 2332	O N CA	TYR A 32 GLY A 32 GLY A 32	5 5	18.677 20.387 20.064	23.118 23.868 22.938	18.498 17.254 16.181		10.94 7.94 7.51	A A A
ATOM ATOM ATOM	2333 2334 2335 2336	C O N CA	GLY A 32 GLY A 32 THR A 32 THR A 32	5 6	20.514 21.492 19.788 20.113	21.493 21.227 20.564 19.132	16.386 17.097 15.752 15.790	1.00 1.00 1.00	12.01 10.59 8.75 10.25	A A A
MOTA MOTA ATOM	2337 2338 2339	CB OG1 CG2	THR A 32 THR A 32 THR A 32	6 6 6	19.005 17.759 19.212	18.311 18.707 16.788	15.708 15.708 15.369	1.00 1.00 1.00	9.46 10.73 7.67	A A A
ATOM ATOM ATOM ATOM	2340 2341 2342 2343	C O N CA	THR A 32 THR A 32 SER A 32 SER A 32	6 7	21.432 22.278 21.614 22.858	18.937 18.131 19.688 19.666	15.038 15.452 13.953	1.00 1.00 1.00	9.78 10.90 12.37	A A A
ATOM ATOM ATOM	2344 2345 2346	CB OG C	SER A 32 SER A 32 SER A 32	7 7 7	22.743 21.725 23.158	18.752 19.192 21.118	13.176 11.935 11.051 12.764	1.00 1.00 1.00	11.58 14.65 10.13 10.87	A A A
ATOM ATOM ATOM ATOM	2347 2348 2349 2350	O N CA CB	SER A 32 ALA A 32 ALA A 32 ALA A 32	8 8	22.419 24.228 24.637	22.031 21.331 22.690	13.149 12.000 11.567	1.00 1.00 1.00	9.05 11.22 10.30	A A A
ATOM	2351	C	ALA A 32		23.682 24.602	23.234 23.592	10.518 12.790		12.01 11.88	A A

ATOM ATOM	2352 2353	O N	ALA A 328 ASN A 329	24.046		12.742	1.00 13.69	i
ATOM ATOM ATOM	2354 2355 2356	CA CB CG	ASN A 329 ASN A 329	25.197 25.150 24.422	23.910 23.083	13.887 15.123 16.205	1.00 11.26 1.00 10.51 1.00 8.81	7. 7.
ATOM ATOM	2357 2358	OD1 ND2		25.132 26.352 24.360	21.771 21.717	16.536 16.573	1.00 9.32 1.00 11.49	P
ATOM ATOM	2359 2360	C	ASN A 329 ASN A 329	26.526 27.515	20.714 24.402 24.381	16.792 15.604 14.849	1.00 10.75 1.00 12.21 1.00 9.35	A A
ATOM ATOM ATOM	2361 2362 2363	N CA CB	ASP A 330 ASP A 330 ASP A 330	26.586 27.837	24.863 25.386	16.851 17.412	1.00 10.38 1.00 9.41	A A A
ATOM ATOM	2364 2365	CG OD1	ASP A 330	27.575 27.239 26.333	26.677 27.852 28.653	18.208 17.331	1.00 10.91 1.00 13.71	A A
MOTA MOTA	2366 2367	OD2 C	ASP A 330 ASP A 330	27.880 28.536	27.981 24.416	17.720 16.261 18.346	1.00 14.93 1.00 10.16 1.00 10.31	· A A A
ATOM ATOM ATOM	2368 2369 2370	O N CA	ASP A 330 ASN A 331 ASN A 331	29.484 28.111	24.809 23.153	19.029 18.363	1.00 8.29 1.00 8.79	A A
ATOM ATOM	2371 2372	CB CG	ASN A 331 ASN A 331	28.698 27.942 26.579	22.217 20.869 20.924	19.311 19.267 19.989	1.00 10.91 1.00 11.40 1.00 15.36	A A
ATOM ATOM ATOM	2373 2374 2375	OD1 ND2	ASN A 331 ASN A 331	25.926 26.156	19.893 22.115	20.194 20.372	1.00 13.36 1.00 12.09 1.00 9.71	A A A
ATOM ATOM	2376 2377	0 0	ASN A 331 ASN A 331 ALA A 332	30.220 30.877 30.795	22.012 21.866 22.001	19.218	1.00 12.28 1.00 12.57	A A
ATOM ATOM	2378 2379	CA CB	ALA A 332 ALA A 332	32.252 32.677	21.842 21.733	18.012 17.903 16.445	1.00 10.00 1.00 12.41 1.00 12.06	A A A
ATCM ATOM ATOM	2380 2381 2382	С О И	ALA A 332 ALA A 333 ALA A 333	32.964 33.973	23.028 22.872	18.548 19.247	1.00 8.53 1.00 11.75	. A
ATOM ATOM	2383 2384	CA CB	ALA A 333 ALA A 333	32.447 33.057 32.424	24.216 25.422 26.655	18.297 18.858 18.223	1.00 9.64 1.00 10.83 1.00 9.42	A A
ATOM ATOM ATOM	2385 2386 2387	С 0 И	ALA A 333 ALA A 333	32.910 33.787	25.473 25.982	20.379 21.096	1.00 10.44	A A A
ATOM ATOM	2388 2389	CA CB	ILE A 334 ILE A 334 ILE A 334	31.787 31.536 30.099	24.963 24.919 24.404	20.869 22.305 22.567	1.00 9.49	A A
ATOM ATOM	2390 2391	CG2 CG1	ILE A 334 ILE A 334	29.902 29.093	24.030 25.467	24.056 22.091	1.00 7.35 1.00 4.48 1.00 8.68	A A A
ATOM ATOM ATOM	2392 2393 2394	CD1 C O	ILE A 334 ILE A 334 ILE A 334	27.628 32.593 33.239	24.953 24.003 24.352	22.043	1.00 8.29 1.00 9.03	A A
ATOM ATOM	2395 2396	N CA	GLN A 335 GLN A 335	32.805 33.800	22.847	23.954 22.333 22.831	1.00 6.82 1.00 6.99 1.00 8.99	A A A
ATOM ATOM ATOM	2397 2398 2399	CB CG CD	GLN A 335 GLN A 335 GLN A 335	33.695 32.448	20.589 19.784	22.053 22.446	1.00 11.58 1.00 21.44	A A
ATOM ATOM	2400 2401	OE1 NE2	GLN A 335 GLN A 335	32.279 33.212 31.089	18.518 18.083 17.926	21.598 20.927 21.638	1.00 30.71	A A
ATOM ATOM	2402 2403	0	GLN A 335 GLN A 335	35.223 36.014	22.438 22.219	22.774	1.00 37.34 1.00 12.27 1.00 10.25	A A A
MOTA MOTA MOTA	2404 2405 2406	N CA CB	ALA A 336 ALA A 336 ALA A 336	35.547 36.868 36.989	23.143 23.726	21.690 21.514	1.00 10.75 1.00 12.71	A A
MOTA MOTA	2407 2408	С О	ALA A 336 ALA A 336	36.989 37.109 38.247	24.375 24.794 25.134	20.091 22.591 22.894	1.00 9.35 1.00 11.11 1.00 11.00	A A . A
ATOM ATOM ATOM	2409 2410 2411	N CA CB	ASN A 337 ASN A 337 ASN A 337	36.025 36.125	25.310 26.342	23.164 24.185	1.00 8.06 1.00 9.10	. A
ATOM ATOM	2412 2413	CG OD1	ASN A 337 ASN A 337	35.098 35.621 36.333	27.440 28.457 29.417	23.887 22.874 23.230	1.00 8.86 1.00 12.21 1.00 12.38	A A A
ATOM ATOM ATOM	2414 2415 2416	ND2 C O	ASN A 337 ASN A 337 ASN A 337	35.301 35.979	28.237 25.816	21.605 25.622	1.00 13.95 1.00 9.52	A A
ATOM ATOM	2417 2418	N CA	ALA A 338 ALA A 338	35.647 36.242 36.194	26.565 24.523 23.863	26.534 25.806 27.117	1.00 7.92 1.00 8.29	A A
ATOM ATOM	2419 2420	CB C	ALA A 338 ALA A 338	37.188 34.825	24.526 23.786	28.069 27.785	1.00 8.92 1.00 10.50 1.00 8.55	A A A
ATOM ATOM ATOM	2421 2422 2423	O N CA	ALA A 338 PHE A 339 PHE A 339	34.732 33.765 32.410	23.67 <u>1</u> 23.844	29.000 27.002	1.00 10.41 1.00 7.84	A A
ATOM ATOM	2424 2425	CB CG	PHE A 339 PHE A 339	31.624 32.258	23.781 25.034 26.345	27.553 27.120 27.576	1.00 8.93 1.00 7.76 1.00 10.23	A A A
ATOM ATOM	2426 2427		PHE A 339 PHE A 339	32.566 32.497	26.557 27.369	28.923 26.664	1.00 11.28 1.00 9.75	A A

FIGURE 5 (suite)

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	890123456789001234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890012345678901245678901245678901245678900124567890012456789001245678900124567890012456789001245678900124567890012456789001245678900124567890012456789001245678900124567890012456789001456789000000000000000000000000000000000000	COONCOCOONCOCOONCOONCOCCCOONCOCOONCOCCOONCOONCOCOONCOCOCOONCOCOCOONCOCOCOONCOCOCOONCOCOCOONCOCOCOCOONCO	PHE A A A A A A A A A A A A A A A A A A A	399900000011111112222222333333344444455555555666666666666	8339731.03669996996996996996996996996996996996996	27.6130 27.6130 27.6130 28.82142 21.7442 21.13889 19.5742 21.163377 21.16337	077731973118922222222222222222222222222222222222	1.00 1.00	11.8.5.9.3.3.9.9.6.1.8.0.9.3.1.9.9.6.1.3.2.6.5.3.3.2.9.6.1.1.0.9.3.3.4.9.9.6.1.3.2.6.3.3.2.9.6.1.3.2.6.3.3.2.9.6.1.3.2.6.3.3.2.9.6.1.3.2.6.3.3.2.9.6.1.3.2.6.3.3.2.9.6.1.3.2.6.3.3.2.9.6.1.3.2.3.3.2.9.6.1.3.2.3.3.2.3.3.2.9.9.6.1.3.2.3.3.2.3.3.2.9.9.3.3.2.9.6.1.3.2.3.3.2.3.3.2.9.9.9.3.3.2.9.9.3.3.2.9.9.3.3.2.3.3.2.3.3.2.3.3.2.3.3.2.3.3.2.3	. A A A A A A A A A A A A A A A A A A A
ATOM ATOM ATOM ATOM	2491 2492 2493 2494	CA CB CG CD	LYS A 34 LYS A 34 LYS A 34 LYS A 34	7 7 7 7 7 7 7 7 3 3 3	17.984 18.902 20.416 21.221	21.852 21.287 21.357 21.071	22.557 21.466 21.748 20.440	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	8.27 12.86 11.51 14.73	A A A A

ATOM	2504 1	A.I.A W	A 349	13.735				
ATOM ATOM	2505 (CA ALA	A 349 A 349	12.791	22.018	24.392	1.00 8.51	A A
MOTA MOTA	2507 (C ALA	A 349 A 349	12.909	23.518	24.095	1.00 10.22	A A
ATOM ATOM	2509	VAL	A 350	11.888 14.140	24.002		1.00 8.91 1.00 12.16	. A
ATOM	2511 (CA VAL CB VAL	A 350 A 350	14.347 15.863				A
ATOM ATOM		CG1 VAL	A 350 A 350	16.075 16.439	27.221	23.071	1.00 8.00	A A
MOTA MOTA	2514 C	C VAL	A 350 A 350	13.709	25.763	22.305	1.00 10.89	A A
ATOM ATOM	2516 N	N ARG	A 351	13.046	26.787 24.895	22.177 21.313	1.00 11.46 1.00 10.91	A A
ATOM	2518 C	B ARG	A 351 A 351	13.289 13.765	25.144 24.106	20.002 18.988	1.00 11.54 1.00 10.07	A A
ATOM ATOM	2520 C	D ARG	A 351 A 351	15.237 15.527	24.167 23.433	18.647 17.312	1.00 10.05 1.00 14.16	A
MOTA MOTA		NE ARG CZ ARG		14.971 15.577	22.067 20.991	17.282 17.780	1.00 17.52	A
ATOM ATOM		H1 ARG H2 ARG	A 351	14.993 16.775	19.802	17.708	1.00 14.15 1.00 14.19	A A
ATOM ATOM	2525 C 2526 C	ARG	A 351	11.750	21.097 25.097	18.338 20.069	1.00 15.54 1.00 13.24	A A
ATOM ATOM	2527 N	ALA	A 352	11.061 11.221	25.925 24.112	19.477 20.786	1.00 10.64 1.00 10.94	A A
ATOM	2529 C	A ALA B ALA	A 352	9.772 9.447	23.942 22.656	20.890 21.636	1.00 13.45 1.00 14.54	A A
MOTA MOTA	2530 C 2531 O			9.028 7.875	25.112 25.385	21.527 21.193	1.00 14.05	A
ATOM ATOM	2532 N 2533 C	SER A SER		9.669 9.024	25.802 26.932	22.454	1.00 9.51	A A
ATOM ATOM		B SER	A 353	9.503	27.088	23.094 24.548	1.00 10.39 1.00 11.56	A A
ATOM ATOM	2536 C 2537 O	SER	A 353	8.802 9.308	26.220 28.245	25.436 22.386	1.00 14.83 1.00 12.07	A A
ATOM ATOM	2538 N	TYR	A 354	8.403 10.568	29.033 28.459	22.178 22.015	1.00 12.33 1.00 10.56	A A
ATOM	2539 C 2540 C	B TYR	A 354	10.955 12.240	29.733 30.188	21.455 22.159	1.00 8.65 1.00 11.42	A A
ATOM ATOM		G TYR D1 TYR	A 354 A 354	12.077 11.168	30.164 31.007	23.670 24.296	1.00 11.26	A
ATOM ATOM		E1 TYR D2 TYR	A 354 A 354	10.962 12.795	30.955 29.265	25.673	1.00 13.86	A
ATOM ATOM	2545 C 2546 C	E2 TYR	A 354	12.608	29.204	24.455 25.846	1.00 12.94 1.00 13.83	A A
ATOM ATOM	2547 O	H TYR	A 354 A 354	11.496	30.048 29.985	26.437 27.784	1.00 15.93 1.00 31.84	A A
ATOM ATOM	2549 O	TYR	A 354	11.069 11.137	29.882 31.011	19.951 19.456	1.00 11.12 1.00 11.00	A A
ATOM	2551 C	A LEU	A 355	11.097 11.156	28.778 28.896	19.218 17.757	1.00 9.87 1.00 11.35	A A
ATOM ATOM	2552 CI	G LEU	A 355	12.292 13.697	28.069 28.633	17.185 17.424	1.00 12.01 1.00 18.77	A
ATOM ATOM		D1 LEU D2 LEU	A 355 A 355	14.731 13.856	27.617 29.963	16.930	1.00 13.44	A A
ATOM ATOM	2556 C 2557 O		A 355 A 355		28.484	17.086	1.00 19.42	A A
ATOM ATOM	2558 N 2559 C	THR	A 356 A 356	9.300	27.331	16.231 17.458	1.00 13.91 1.00 13.88	A A
ATOM ATOM	2560 CI 2561 OC	B THR	A 356 A 356	8.036 7.414	26.866 25.759	16.849 17.704	1.00 16.44 1.00 19.06	A A
ATOM	2562 CC	G2 THR	A 356	8.352 6.108	24.678 25.265	17.794 17.077	1.00 22.02 1.00 20.44	A A
ATOM ATOM	2563 C 2564 O	THR	A 356 A 356	7.058 6.609	28.040 28.642	16.684 17.658	1.00 15.88 1.00 14.53	A A
MOTA MOTA	2565 N 2566 C	ALA A	A 357 A 357	6.720 5.892	28.362 29.536	15.441 15.175	1.00 16.53 1.00 15.13	A
ATOM ATOM	2567 CE 2568 C	3 ALA	A 357 A 357	5.654 4.569	29.669 29.630	13.662	1.00 17.87	A A
MOTA MOTA	2569 O 2570 N	ALA	A 357 A 358	4.141	30.714	15.918 16.295	1.00 18.27 1.00 19.17	A A
ATOM ATOM	2571 CA 2572 CE	SER .	A 358	3.930 2.643	28.492 28.444	16.127 16.800	1.00 18.84 1.00 22.62	A A
MOTA	2573 00	SER.	A 358 A 358	1.953 2.853	27.125 26.049	16.459 16.654	1.00 18.79 1.00 21.93	A A
ATOM ATOM	2574 C 2575 O	SER .		2.716 1.719	28.607 28.918	18.318 18.949	1.00 22.54	A
ATOM ATOM	2576 N 2577 CA		A 359 A 359	3.886 3.950	28.410 28.550	18.916 20.358	1.00 20.48	A A
ATOM ATOM	2578 CB 2579 CG	ASN A		5.249 5.180	27.956 27.718	20.338	1.00 16.65 1.00 12.27	A A
		-		2.200	- / . / 10	44.30/	1.00 11.80	Α

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8012345678899123456789901234567899012345666666666666666666666666666666666666	ND2 ASN A 359 C ASN A 359 C ASN A 359 N A 359 N A 359 N A 360 N ALA A 360 CA ALA A 360 CB ALA A 360 CCB ALA A 361 CCB LEU A 361 CCB LEU A 361 CCC CCC LEU A 362 CCC LEU A 366 CCC SER A 362 CCC SER A 362 CCC SER A 362 CCC SER A 366 CCC SER A 363 CCC SER A 363 CCC CCC SER A 363 CCC SER A 366 CCC CCC SER A 366 CCC CCC ASP A 365 CCC CCC ASP A 366 CCC SER A 366 CCC SE	929 929 93440 93410 9341	26.451 26.451 30.83661 30.836651 31.6550 32.54826 31.6550 3	703 179454 1	1.00 16.11 1.00 14.58 1.00 15.70 1.00 15.71 1.00 18.67 1.00 18.59 1.00 11.27 1.00 15.51 1.00 15.51 1.00 15.51 1.00 15.51 1.00 15.57 1.00 12.87 1.00 12.87 1.00 12.87 1.00 12.87 1.00 12.87 1.00 12.87 1.00 12.85	
ATOM ATOM ATOM ATOM	2646 2647 2648 2649	SG CYS A 369 N GLY A 370 CA. GLY A 370 C GLY A 370	6.819 2.698 2.154 2.190	38.961 41.521 42.575 43.938	19.671 17.812 16.966 17.627	1.00 19.53 1.00 25.38 1.00 27.80 1.00 21.46	A A A

ATOM ATOM ATOM ATOM ATOM ATOM	2656 2657 2658 2659 2660 2661 2662	CA LYS A 372 CB LYS A 372 CG LYS A 372 CD LYS A 372 CE LYS A 372 NZ LYS A 372 C LYS A 372 C LYS A 372	5.612 5.141 3.715 3.278 1.884 1.426 7.037	45.537 44.605 44.856 43.936 44.315 43.423 45.167	20.197 21.296 21.675 22.769 23.208 24.285 19.855	1.00 21.66 1.00 19.20 1.00 25.31 1.00 24.34 1.00 29.63 1.00 25.95 1.00 18.74	; ; ; ; ;
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2663 2664 2665 2666 2667 2668 2669	O LYS A 372 N GLY A 373 CA GLY A 373 C GLY A 373 O GLY A 373 N ARG A 374 CA ARG A 374	7.337 7.917 9.297 10.366 10.168 11.517 12.639	44.799 45.247 44.876 45.876 47.106 45.342 46.187	18.721 20.852 20.616 21.015 20.965 21.419 21.792	1.00 17.43 1.00 15.44 1.00 12.87 1.00 17.42 1.00 13.70 1.00 14.49 1.00 13.29	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2670 2671 2672 2673 2674 2675 2676 2677	CB ARG A 374 CG ARG A 374 CD ARG A 374 NE ARG A 374 NT1 ARG A 374 NT2 ARG A 374 NT3 ARG A 374 NT4 ARG A 374	13.786 13.456 14.668 15.729 16.143 15.564	45.339 44.710 44.080 45.034 45.296 44.694 46.082	22.333 23.692 24.332 24.665 25.699 26.928 26.100	1.00 15.72 1.00 18.10 1.00 20.11 1.00 13.47 1.00 13.50 1.00 11.14 1.00 9.65	A A A A A
MOTA MOTA MOTA MCTA MOTA MOTA	2678 2679 2680 2681 2682 2683 2684	C ARG A 374 O ARG A 374 N PRO A 375 CD PRO A 375 CA PRO A 375 CB PRO A 375 CG PRO A 375 C PRO A 375	13.097 13.008 13.575 13.680 14.051 14.304 14.669	46.989 46.517 48.225 48.834 49.137 50.445 49.958	20.563 19.411 20.797 22.133 19.753 20.516 21.903	1.00 14.09 1.00 13.90 1.00 13.52 1.00 12.37 1.00 15.51 1.00 18.56 1.00 16.56	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2685 2686 2687 2688 2689 2690 2691	O PRO A 375 N GLU A 376 CA GLU A 376 CB GLU A 376 CG GLU A 376 CD GLU A 376 OE1 GLU A 376	15.282 16.130 15.384 16.501 15.989 15.840 16.852	48.622 47.953 48.956 48.480 48.638 50.093 50.265	19.017 19.605 17.733 16.928 15.429 14.930 13.408 12.693	1.00 16.94 1.00 16.29 1.00 14.83 1.00 14.54 1.00 20.94 1.00 25.93	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2692 2693 2694 2695 2696 2697 2698	OE2 GLU A 376 C GLU A 376 O GLU A 376 OXT GLU A 376 OH2 WAT S1500 OH2 WAT S1501 OH2 WAT S1502	14.706 17.818 17.779 18.870 35.620 26.719 32.910	49.921 49.144 50.308 48.501 33.372 26.585 38.720	12.926 17.258 17.715 17.040 34.950 54.115 42.612	1.00 27.73 1.00 22.85 1.00 15.46 1.00 20.34 1.00 17.16 1.00 7.74 1.00 13.35 1.00 11.02	A A A A S S S
ATOM ATOM ATOM ATOM ATOM ATOM	2699 2700 2701 2702 2703 2704 2705	OH2 WAT S1503 OH2 WAT S1504 OH2 WAT S1505 OH2 WAT S1506 OH2 WAT S1507 OH2 WAT S1508 OH2 WAT S1509	25.842 47.855 37.575 43.970 51.431 21.180 34.016	40.990 24.508 38.877 19.166 26.280 34.238 23.145	19.393 32.439 30.460 36.360 38.870 33.496 55.150	1.00 10.30 1.00 11.64 1.00 13.25 1.00 11.89 1.00 10.94 1.00 7.21	1
ATOM ATOM ATOM ATOM ATOM ATOM	2706 2707 2708 2709 2710 2711 2712	OH2 WAT S1510 OH2 WAT S1511 OH2 WAT S1512 OH2 WAT S1513 OH2 WAT S1514 OH2 WAT S1516 OH2 WAT S1516	34.137 29.833 36.421 24.593 33.875 55.590 25.163	35.767 31.064 34.348 22.841 20.919 18.894 24.507	50.996 61.815 51.750 22.601 53.336 44.228 19.298	1.00 14.32 1.00 12.62 1.00 8.81 1.00 14.49 1.00 15.73 1.00 20.22 1.00 7.32	ច្ចខេត្ត
ATOM ATOM ATOM ATOM ATOM ATOM	2713 2714 2715 2716 2717 2718 2719	OH2 WAT S1517 OH2 WAT S1518 OH2 WAT S1519 OH2 WAT S1520 OH2 WAT S1521 OH2 WAT S1522 OH2 WAT S1523	29.287 27.630 34.308 24.097 26.289 31.025 16.012	27.565 35.157 40.814 26.340 17.353 26.248 33.323	53.584 54.573 45.314 47.444 26.191 57.309 36.822	1.00 10.43 1.00 11.84 1.00 9.91 1.00 12.35 1.00 14.15 1.00 9.97 1.00 10.61	១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2720 2721 2722 2723 2724 2725 2726	OH2 WAT S1524 OH2 WAT S1525 OH2 WAT S1526 OH2 WAT S1527 OH2 WAT S1528 OH2 WAT S1529 OH2 WAT S1530	35.079 48.948 23.036 41.445 30.777 9.482 10.107	31.981 16.302 32.247 42.204 34.835 33.895 31.646	26.882 35.666 50.228 48.819 16.827 27.983 29.601	1.00 7.27 1.00 22.32 1.00 12.80 1.00 16.71 1.00 12.96 1.00 10.22 1.00 12.12	១១១១១១១១១
ATOM ATOM ATOM ATOM ATOM	2727 2728 2729 2730 2731	OH2 WAT S1531 OH2 WAT S1532 OH2 WAT S1533 OH2 WAT S1534 OH2 WAT S1535	37.836 23.419 36.234 5.728 29.914	31.446 29.528 16.727 38.503 14.295	58.127 35.937 51.505 24.985 35.432	1.00 18.63 1.00 10.10 1.00 9.28 1.00 13.33 1.00 16.41	១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១

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ATOM ATTOM A	22222222222222222222222222222222222222	OH2 WAT S1536 OH2 WAT S1537 OH2 WAT S1538 OH2 WAT S1540 OH2 WAT S1541 OH2 WAT S1543 OH2 WAT S1543 OH2 WAT S1545 OH2 WAT S1545 OH2 WAT S1546 OH2 WAT S1546 OH2 WAT S15547 OH2 WAT S1555 OH2 WAT S1555 OH2 WAT S1555 OH2 WAT S1555 OH2 WAT S1556 OH2 WAT S1556 OH2 WAT S1556 OH2 WAT S1566 OH2 WAT S1567 OH2 WAT S1566 OH2 WAT S1567 OH2 WAT S1568 OH2 WAT S1568 OH2 WAT S1568 OH2 WAT S1569 OH2 WAT S1571 OH2 WAT S1571 OH2 WAT S1573 OH2 WAT S1573 OH2 WAT S1576 OH2 WAT S1576 OH2 WAT S1576 OH2 WAT S1576 OH2 WAT S1577 OH2 WAT S1578 OH2 WAT S1578 OH2 WAT S1578 OH2 WAT S1579 OH2 WAT S1588 OH2 WAT S1588 OH2 WAT S1588 OH2 WAT S1589 OH2 WAT S1589 OH2 WAT S1589 OH2 WAT S1589 OH2 WAT S1599 OH2 WAT S16004 OH2 WAT S16009	31.313.313.323.313.323.313.3231.3231.32	16.606 22.869 20.501 31.829 15.671 35.406 34.010 46.444 19.477 33.345	 1.00 9.93 1.00 15.09 1.00 13.36 1.00 12.47 1.00 18.37 1.00 12.24 1.00 19.22 1.00 19.22 1.00 13.46 1.00 19.22 1.00 13.46 1.00 14.34 1.00 13.06 1.00 17.08 1.00 18.47 1.00 13.06 1.00 13.06 1.00 13.06 1.00 13.06 1.00 12.32 1.00 12.47 1.00 12.47 1.00 12.38 1.00 12.47 1.00 12.46 1.00 12.30 1.00 12.46 1.00 12.30 1.00 12.46 1.00 12.46 1.00 12.50 1.00 12.51 1.00 14.55 1.00 14.55 1.00 14.55 1.00 14.55 1.00 15.10 1.00 15.10 1.00 15.10 1.00 15.10 1.00 17.80 1.00 17.80 1.00 17.80 1.00 17.80 1.00 17.80 1.00 17.80 1.00 17.80 1.00 17.80 1.00 14.55 1.00 14.53 1.00 14.24 1.00 14.13 1.00 14.24 1.00 14.13	១៙១៧៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣៣

42/46

ATOM	2808	OH2 WAT	S1612	20.220	22 242	15 200		
ATOM	2809	OH2 WAT		29.378 47.580	22.049 17.180	15.378 46.156	1.00 18.53 1.00 18.00	S
MOTA	2810		S1614	23.216	43.309	37.644	1.00 13.00	s s
ATOM	2811		S1615	22.669	24.274	48.564	1.00 24.15	S
ATOM	2812		S1616	0.336	31.433	18.582	1.00 27.87	S
MOTA	2813		S1617	45.294	33.053	51.773	1.00 13.88	S
ATOM	2814		S1618	44.363	26.868	22.624	1.00 23.01	S
MOTA ATOM	2815 2816		S1619 S1620	24.023	16.291	14.532	1.00 14.28	S
ATOM	2817		S1620	25.803 10.423	16.259 51.944	28.626 32.078	1.00 18.77 1.00 36.29	s s
ATOM	2818		S1622	26.115	58.809	27.014	1.00 36.29 1.00 15.64	S
ATOM	2819		S1623	1.344	28.356	22.672	1.00 26.37	S
ATOM	2820	OH2 WAT		26.639	58.198	21.115	1.00 25.02	S
ATOM	2821		S1625	26.622	32.997	55.284	1.00 16.24	S
ATOM ATOM	2822		S1626	15.027	52.473	26.183	1.00 21.76	S
ATOM	2823 2824		S1627 S1628	57.187 44.922	25.783 43.322	44.900 47.514	1.00 20.20	S
ATOM	2825		S1629	32.001	38.779	53.199	1.00 18.96 1.00 17.42	s s
ATOM	2826	OH2 WAT		30.741	52.390	22.108	1.00 17.42	S
ATOM	2827		S1631	14.999	39.258	44.162	1.00 19.15	S
ATOM	2828		S1632	44.210	20.606	55.552	1.00 17.79	S
ATOM ATOM	2829 2830	OH2 WAT		21.471	43.377	12.416	1.00 19.05	S
ATOM	2831		S1634 S1635	13.869 52.620	15.823	31.777	1.00 25.21	S
ATOM	2832		S1636	26.556	30.612 19.486	55.173 52.050	1.00 30.08 1.00 29.07	S S
ATOM	2833		S1637	21.965	25.980	45.841	1.00 23.07	S
MOTA	2834		S1638	51.617	33.897	42.473	1.00 9.81	s s
ATOM	2835		S1639	11.552	20.655	19.351	1.00 16.68	S
MOTA MOTA	2836 2837		S1640	30.899	45.201	19.222	1.00 26.19	S
ATOM	2838		S1641 S1642	31.709 23.676	48.342 25.327	31.000	1.00 18.10 1.00 14.28	S
ATOM	2839		S1643	25.577	17.219	22.818 46.479	1.00 14.28	s s
ATOM	2840		S1644	18.005	18.283	19.152	1.00 24.14	S
MOTA	2841		S1645	52.881	16.705	50.095	1.00 20.16	Š
ATOM	2842		S1646	5.848	42.562	37.856	1.00 19.01	. S
ATOM ATOM	2843 2844		S1647 S1648	43.582 22.374	14.659	34.565	1.00 28.17	s
ATOM	2845		S1649	8.712	17.743 48.989	20.886 27.030	1.00 18.81 1.00 23.87	S S
ATOM	2846		S1650	2.521	47.157	34.228	1.00 23.87	S
ATOM	2847	OH2 WAT	S1651	44.220	43.064	40.109	1.00 29.97	S
ATOM	2848		S1652	27.919	24.353	12.179	1.00 16.62	s
MOTA MOTA	2849 2850		S1653	3.523	42.077	26.249	1.00 22.83	S
ATOM	2851		S1654 S1655	20.380 57.034	44.291 28.423	37.672	1.00 17.30	S
ATOM	2852		S1656	49.668	24.467	45.056 30.455	1.00 27.44 1.00 22.73	s s
ATOM	2853		S1657	51.259	13.409	45.586	1.00 34.23	S
ATOM	2854	OH2 WAT		9.456	23.136	36.163	1.00 24.71	S
ATOM	2855		S1659	52.331	23.665	57.905	1.00 18.92	S
MOTA MOTA	2856 2857	OH2 WAT	S1660 S1661	43.381		56.268	1.00 30.03	S
ATOM	2858		S1662	13.806 53.981	46.776 30.491	43.159 48.223	1.00 30.72 1.00 13.32	s s
MOTA	2859	OH2 WAT		41.765	26.570	28.744	1.00 13.32	S
MOTA	2860	OH2 WAT	S1664	40.737	17.318	53.732	1.00 24.67	S
ATOM	2861		S1665	13.225	44.990	8.674	1.00 28.84	S
ATOM ATOM	2862		S1666	49.013	41.254	39.651	1.00 28.00	S
ATOM	2863	OH2 WAT		44.805 43.625	37.426 18.020	30.933	1.00 16.56	S
ATOM	2865		S1669	14.317	25.699	54.500 46.118	1.00 24.62 1.00 34.64	S S
MOTA	2866		S1670	3.256	42.913	32.109	1.00 29.06	S
ATOM	2867	OH2 WAT		10.555	49.763	20.725	1.00 28.19	S
ATOM	2868		S1672	10.096	51.223	27.611	1.00 23.49	S
ATOM ATOM	2869 2870	OH2 WAT		14.363	23.946	36.209	1.00 40.49	S
ATOM	2871	OH2 WAT		25.126 36.093	59.432 4.004	22.831 46.425	1.00 22.37	S
ATOM	2872	OH2 WAT		58.346	33.177	43.906	1.00 41.05 1.00 32.25	s s
ATOM	2873	OH2 WAT		48.932	35.192	51.801	1.00 32.23	S
ATOM	2874	OH2 WAT	S1678	58.902	19.301	43.107	1.00 25.48	S
ATOM	2875		S1679	44.340	42.085	50.822	1.00 28.00	S
ATOM	2876 2877		S1680	50.480	38.266	34.016	1.00 31.92	S
ATOM ATOM	2877 2878		S1681 S1682	32.259 5.907	20.178 48.823	55.706 21.778	1.00 22.68	S
ATOM	2879		S1683	50.286	29.738	36.205	1.00 41.37 1.00 41.24	S
MOTA	2880	OH2 WAT	S1684	48.359	24.392	27.682	1.00 21.59	S
MOTA	2881		S1685	28.819	16.491	25.944	1.00 22.91	S
ATOM	2882		S1686	27.814	39.366	53.598	1.00 22.13	S
MOTA	2883	OH2 WAT	2108/	23.282	56.182	29.647	1.00 21.73	S

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OH2 WAT 51688
OH2 WAT 51689
 MOTA
         2884
                                                                    1.00 39.40
                                       11.176
                                                 51.488
                                                          23.245
 ATOM
         2885
                                       19.333
                                                 13.893
                                                          25.470
                                                                    1.00 16.29
 ATOM
         2886
                OH2
                     WAT S1690
                                       15.528
                                                 35.966
                                                          43.442
                                                                    1.00 24.55
 MOTA
         2887
                OH2
                     WAT
                         S1691
                                       28.485
                                                 18.098
                                                          54.189
                                                                    1.00
                                                                          38.82
 MOTA
         2889
                OH2
                     WAT S1692
                                       49.461
                                                 42.346
                                                          42.415
                                                                    1.00
                                                                          29.71
 MOTA
         2889
                OH2
                     WAT
                         S1693
                                        6.986
                                                 51.318
                                                          31.491
                                                                    1.00 38.19
 ATOM
         2890
                     WAT S1694
                OH2
                                       45.805
                                                 30.330
                                                          30.352
                                                                    1.00 31.74
 MOTA
         2891
                OH2
                     WAT S1695
                                       12.688
                                                 17.949
                                                          24.810
                                                                    1.00
                                                                          24.29
 ATOM:
         2892
                OH2
                     WAT
                         S1696
                                       10.481
                                                 44.192
                                                          41.405
                                                                    1.00 30.36
 ATOM
         2893
                     WAT S1697
                                                                                       S
                OH2
                                                 25.163
                                       36.497
                                                          61.042
                                                                    1.00
                                                                          22.75
 ATOM
         2894
                OH<sub>2</sub>
                     WAT S1698
                                       38.997
                                                  8.895
                                                          40.582
                                                                    1.00 35.83
 MOTA
         2895
                                                                                       S
                OH2
                     WAT S1699
                                       34.429
                                                 41.271
                                                                    1.00 25.66
1.00 12.79
                                                          24.603
 MOTA
         2896
                    WAT
                OH2
                         S1700
                                        9.264
                                                 39.356
                                                          31.031
                                                                                       S
 MOTA
         2897
                OH2
                    WAT S1701
                                       10.070
                                                                    1.00 38.68
                                                 23.977
                                                          42.971
 MOTA
         2898
                                       18.383
49.044
                OH2 WAT
                         S1702
                                                 29.372
                                                           9.706
 MOTA
         2899
                OH2 WAT S1703
                                                 14.511
                                                          44.663
                                                                    1.00 29.13
 ATOM
         2900
                                       24.559
20.114
                OH2 WAT
                         S1704
                                                 26.271
45.757
                                                          39.612
                                                                    1.00
                                                                          9.57
 ATOM
         2901
                                                                                       S
                OH2 WAT S1705
                                                          12.779
                                                                    1.00 24.18
         2902
 ATOM
                                       40.248
                    WAT S1706
                OH2
                                                                    1.00 29.44
                                                 22.113
                                                          20.074
                                                                                       S
 ATOM
         2903
                OH2 WAT S1707
                                                                   1.00 17.46
                                                 41.869
                                                          42.229
         2904
 ATOM
                OH2
                    WAT S1708
                                       37.847
                                                 20.546
                                                          20.498
                                                                   1.00 18.73
ATOM
         2905
                OH2
                    WAT S1709
                                       16.821
                                                 29.280
                                                          41.001
                                                                    1.00 24.06
ATOM
         2906
                OH2
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WAT S1715
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ATOM
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                                                         13.736
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S1752
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ATOM
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                        S1756
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                                                                   1.00 32.92
1.00 21.37
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MOTA
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1.00 31.30
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MOTA
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                                                52.812
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               OH2 WAT S1763
MOTA
        2959
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                                                11.735
                                                         35.138
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MOTA	2960	OH2 V	WAT S1764	51.666	24 171	47 365	1 00 25 21	_
ATOM	2961		WAT S1765			47.365	1.00 35.34	s
ATOM	2962			-2.014	36.180	15.830	1.00 28.16	S
			NAT S1766	15.482	48.721	37.060	1.00 29.26	S
ATOM	2963		WAT S1767	40.630	14.716	31.062	1.00 40.40	s
MOTA	2964	OH2 V	WAT S1768	23.698	61.256	21.533	1.00 16.86	Š
ATOM	2965	OH2 V	NAT S1769	24.781	28.532	54.977	1.00 16.20	
ATOM	2966		NAT S1770	26.852	25.257	10.061		S
ATOM	2967		VAT S1771	43.726			1.00 30.41	S
ATOM	2968				10.405	46.878	1.00 29.13	S
ATOM	2969			25.837	37.362	54.027	1.00 21.97	s
			VAT S1773	33.373	46.686	32.566	1.00 26.20	s
MOTA	2970		VAT S1774	27.264	20.817	13.545	1.00 22.02	S
MOTA	2971	OH2 W	VAT S1775	47.925	30.806	31.477	1.00 33.49	š
MOTA	2972	OH2 W	VAT S1776	8.238	38.202	37.592	1.00 26.28	s
MOTA	2973	OH2 W	VAT S1777	21.090	51.641	25.222	1.00 18.54	S
ATOM	2974	OH2 W	VAT 51778	6.267	38.069	32.873		5
ATOM	2975	_	VAT S1779	23.234			1.00 22.17	S
ATOM	2976				49.347	16.745	1.00 24.08	S
ATOM	2977			22.134	39.856	40.656	1.00 21.00	s
			VAT S1781	20.856	35.405	9.637	1.00 23.13	s
ATOM	2978		AT S1782	21.475	53.999	26.047	1.00 27.01	S
MOTA	2979		AT S1783	34.915	27.212	15.190	1.00 31.71	Š
MOTA	2980	OH2 W	VAT S1784	45.211	12.993	42.137	1.00 21.38	S
MOTA	2981	OH2 W	AT S1785	38.126	34.805	40.034	1.00 17.57	2
MOTA	2982	OH2 W	AT S1786	30.962	49.798	21.332		s
ATOM	2983		AT S1787	33.222			1.00 32.31	S
ATOM	2984		AT S1788		19.319	25.705	1.00 29.22	S
ATOM	2985		AT S1789	40.144	19.662	28.253	1.00 33.93	s
ATOM	2986	OH2 W		6.555	28.590	37.281	1.00 28.90	S
ATOM				43.426	43.935	45.155	1.00 34.35	S
	2987		AT S1791	3.263	33.201	14.705	1.00 33.11	S
ATOM	2983		AT S1792	20.149	16.998	31.047	1.00 26.99	S
ATOM	2989		AT S1793	34.123	42.842	21.180	1.00 24.49	S
ATOM	2990	OH2 W	AT S1794	49.929	18.274	53.829	1.00 39.26	s
MOTA	2991	OH2 W	AT S1795	14.815	31.617	9.739		3
ATOM	2992		AT S1796	45.588	41.539			S
ATOM	2993		AT S1797	33.245		53.753	1.00 35.01	S
ATOM	2994		AT 51798		52.433	24.002	1.00 34.85	S
ATOM	2995			43.010	24.276	22.909	1.00 21.38	S
ATOM	2996			19.769	14.826	46.718	1.00 30.67	S
			AT S1800	29.812	17.873	43.458	1.00 28.85	S
ATOM	2997		AT S1801	7.028	22.438	24.718	1.00 30.13	S
ATOM	2998		AT S1802	7.451	42.723	16.836	1.00 34.86	Š
ATOM	2999		AT S1803	13.062	50.532	16.899	1.00 27.23	5
ATOM	3000	OH2 W	AT S1804	31.535	17.528	46.115	1.00 21.48	S
ATOM	3001	OH2 W	AT S1805	1.214	41.199	23.409	1.00 33.03	20
ATOM	3002	OH2 W	AT S1806	12.350	33.958	40.836		S
ATOM	3003		AT S1807	33.164	41.928		1.00 34.82	S
ATOM	3004		AT S1808	4.467		54.755	1.00 33.81	S
ATOM	3005	OH2 W			50.285	27.482	1.00 36.79	S
ATOM	3006			60.702	26.732	42.684	1.00 35.13	S S S S S S S S
ATOM	3007			22.799	31.560	57.795	1.00 32.80	S
ATOM	3008		AT S1811	16.630	35.862	8.507	1.00 29.92	នននន
			AT S1812	58.212	35.487	40.540	1.00 33.76	S
ATOM	3009		AT S1813	31.566	17.525	26.426	1.00 39.01	S
ATOM	3010		AT S1814	38.884	37.614	20.120	1.00 33.89	Š
ATOM	3011		AT S1815	58.154	24.777	37.822	1.00 35.73	č
MOTA	3012	OH2 W	AT S1816	34.384	14.783	47.649	1.00 37.28	S
ATOM	3013	OH2 W	AT S1817	3.439	43.153	36.372	1.00 30.78	3
ATOM	3014	OH2 W	AT S1818	47.394	12.444	43.290		S
MOTA	3015		AT S1819	24.644	13.829		1.00 30.32	S
ATOM	3016	OH2 W				44.044	1.00 32.65	S
MOTA	3017			35.990	42.985	32.322	1.00 29.66	S
ATOM	3018			26.914	40.212	9.947	1.00 33.58	S S
		OH2 W		40.296	29.386	23.361	1.00 44.10	S
ATOM	3019	OH2 W		42.915	30.163	27.417	1.00 33.23	S
ATOM	3020	OH2 W		14.322	38.428	8.032	1.00 35.73	Š
ATOM	3021	OH2 W		33.329	16.000	45.385	1.00 29.78	5
ATOM	3022	OH2 W	AT S1826	55.683	. 28.168	38.449	1.00 30.81	3
ATOM	3023	OH2 W	AT S1827	18.514	45.706	9.695		9.0
MOTA	3024	OH2 W		19.453	54.788	22.809		S
ATOM	3025	OH2 W		46.686			1.00 42.02	S
ATOM	3026	OH2 W			27.005	20.816	1.00 31.17	S
ATOM	3027			50.779	32.327	54.666	1.00 44.04	s
			AT S1831	5.243	43.614	40.262	1.00 40.69	<u> </u>
ATOM	3028	OH2 W		45.151	43.041	33.919	1.00 28.47	S
ATOM	3029	OH2 W		26.385	11.949	41.104	1.00 33.70	, a
MOTA	3030	OH2 W		36.104	26.756	17.653	1.00 32.43	0 (
MOTA	3031	OH2 W	AT S1835	40.585	7.298	41.894	1.00 32.97	S
ATOM	3032		AT S1836	22.940	54.196	16.985		2
MOTA	3033		AT S1837	53.968	24.450	37.442	1.00 39.88	S
ATOM	3034		AT S1838	16.318			1.00 39.29	S
ATOM	3035		AT S1839		26.973	42.179	1.00 32.94	S
0.,	2022	JIIZ WA	21033	14.513	48.940	39.307	1.00 29.97	S

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OH2 WAT S1841
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- <110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE UNIVERSITE HENRI POINCARE DE NANCY
- <120> NOUVELLE PROTEINE DE LIAISON AU PHOSPHATE, COMPOSITIONS PHARMACEUTIQUES LA CONTENANT ET SES UTILISATIONS
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INTERNATIONAL SEARCH REPORT

A CLASS	SIFICATION OF SUBJECT MATTER		
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According t	to International Patent Classification (IPC) or to both national classi	fication and IPC	
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IPC /	focumentation searched (classification system followed by classification $C07K$		
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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the r	relevant nassages	Relevant to claim No.
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	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Keller, Y	

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INTERNATIONAL SEARCH REPORT

information on patent family members

/----tional Application No /FR2004/002797

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003158115	A1	21-08-2003	US	6482934 B1	19-11-2002

Form PCT/ISA/210 (patent family annex) (January 2004)

RAPPORT DE RECHERCHE INTERNATIONALE

A. CLASSEMENT DE L'OBJET DE LA DEMANDE CIB 7 CO7K14/47

Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB

B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE

Documentation minimale consultée (système de classification suivi des symboles de classement) CIB 7 CO7K

Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche

Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si réalisable, termes de recherche utilisés) EPO-Internal, Sequence Search, BIOSIS, EMBASE, PAJ, WPI Data

Catégorie °	Identification des documents cités, avec, le cas échéant, l'indication des passages perlinents	no. des revendications visées
X	US 2003/158115 A1 (LIESKE JOHN C ET AL) 21 août 2003 (2003-08-21) abrégé exemple 6 SEQ ID No 16	1-9
X	DATABASE UNIPROT 'Online! EBI; 10 octobre 2003 (2003-10-10), XP002275669 Database accession no. P35482 le document en entier	1-9
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Document brevet cité au rapport de recherche	Date de publication	Membre(s) de la famille de brevet(s)	Date de publication
US 2003158115 A1	21-08-2003	US 6482934 B1	19-11-2002